

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11485.32	56.22	74.00	-17.78	41.14	10.51	39.20	34.63	159	196 Peak	HORIZONTAL
2	11490.40	43.40	54.00	-10.60	28.32	10.51	39.20	34.63	159	196 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11490.90	56.15	74.00	-17.85	41.07	10.51	39.20	34.63	188	143 Peak	VERTICAL
2	11492.94	43.31	54.00	-10.69	28.23	10.51	39.20	34.63	188	144 Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11569.16	55.48	74.00	-18.52	40.47	10.51	39.15	34.65	196	303 Peak	HORIZONTAL
2	11569.36	42.33	54.00	-11.67	27.32	10.51	39.15	34.65	196	303 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11572.74	55.24	74.00	-18.76	40.23	10.51	39.15	34.65	183	237 Peak	VERTICAL
2	11574.32	42.35	54.00	-11.65	27.34	10.51	39.15	34.65	183	237 Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11645.10	55.23	74.00	-18.77	40.29	10.51	39.09	34.66	155	207 Peak	HORIZONTAL
2	11647.30	42.91	54.00	-11.09	27.97	10.51	39.09	34.66	155	207 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	11647.48	41.91	54.00	-12.09	26.97	10.51	39.09	34.66	167	256 Average	VERTICAL
2	11650.12	55.62	74.00	-18.38	40.68	10.51	39.09	34.66	167	256 Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15571.60	46.25	54.00	-7.75	29.64	13.38	38.39	35.16	156	231 Average	HORIZONTAL
2	15571.94	59.88	74.00	-14.12	43.27	13.38	38.39	35.16	156	231 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15568.08	59.49	74.00	-14.51	42.88	13.38	38.39	35.16	160	308 Peak	VERTICAL
2	15568.46	46.59	54.00	-7.41	29.98	13.38	38.39	35.16	160	308 Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15692.80	59.32	74.00	-14.68	42.94	13.39	38.23	35.24	184	141	Peak	HORIZONTAL
2	15694.02	45.64	54.00	-8.36	29.26	13.39	38.23	35.24	184	141	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15687.87	59.28	74.00	-14.72	42.82	13.39	38.28	35.21	186	178	Peak	VERTICAL
2	15692.84	46.26	54.00	-7.74	29.88	13.39	38.23	35.24	186	178	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11505.70	56.15	74.00	-17.85	41.07	10.51	39.20	34.63	144	107 Peak	HORIZONTAL
2	11508.30	43.42	54.00	-10.58	28.34	10.51	39.20	34.63	144	107 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11508.84	43.34	54.00	-10.66	28.27	10.51	39.20	34.64	183	165 Average	VERTICAL
2	11514.22	57.10	74.00	-16.90	42.03	10.51	39.20	34.64	183	165 Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configuration	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11594.08	49.02	74.00	-24.98	34.05	10.51	39.12	34.66	187	192	Peak	HORIZONTAL
2	11594.94	36.71	54.00	-17.29	21.74	10.51	39.12	34.66	187	192	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11585.10	41.20	54.00	-12.80	26.23	10.51	39.12	34.66	159	239	Average	VERTICAL
2	11592.82	48.83	74.00	-25.17	33.86	10.51	39.12	34.66	159	239	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15625.24	59.54	74.00	-14.46	43.01	13.38	38.34	35.19	198	86 Peak	HORIZONTAL
2	15631.15	46.38	54.00	-7.62	29.85	13.38	38.34	35.19	198	86 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	15625.71	58.95	74.00	-15.05	42.42	13.38	38.34	35.19	207	148 Peak	VERTICAL
2	15633.64	46.45	54.00	-7.55	29.92	13.38	38.34	35.19	207	148 Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3+ Chain 4
Test Date	May 27, 2016~Jul. 26, 2016		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11547.76	53.39	74.00	-20.61	38.36	10.51	39.17	34.65	186	74 Peak	HORIZONTAL
2	11549.88	40.84	54.00	-13.16	25.81	10.51	39.17	34.65	186	74 Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11545.50	40.56	54.00	-13.44	25.52	10.51	39.17	34.64	174	120 Average	VERTICAL
2	11551.38	53.31	74.00	-20.69	38.30	10.51	39.15	34.65	174	120 Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.7.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for Peak
RBW / VBW (30dBc in any 100 kHz bandwidth emission)	100 kHz / 300 kHz for Peak

4.7.3. Test Procedures

For Radiated band edges Measurement:

The test procedure is the same as section 4.6.3.

For Radiated Emissions in non-restricted frequency bands Measurement:

Test was performed in accordance with Clause 11.11 of ANSI C63.10-2013 and/or in Section 11.0 of KDB Publication 558074.

4.7.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.6.4.

For Radiated Emissions in non-restricted frequency bands Measurement:

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

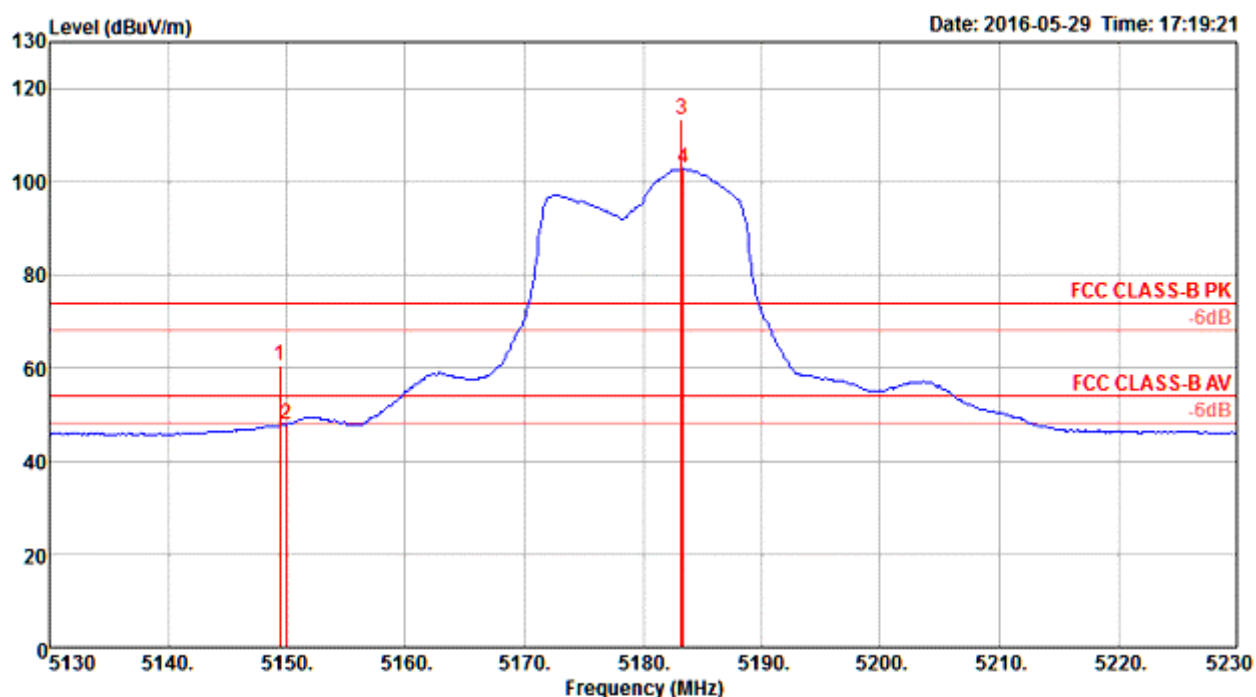
4.7.7. Test Result of Band Edge and Fundamental Emissions

For OMNI antenna:

<For Non-Beamforming Mode>

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3+ Chain 4

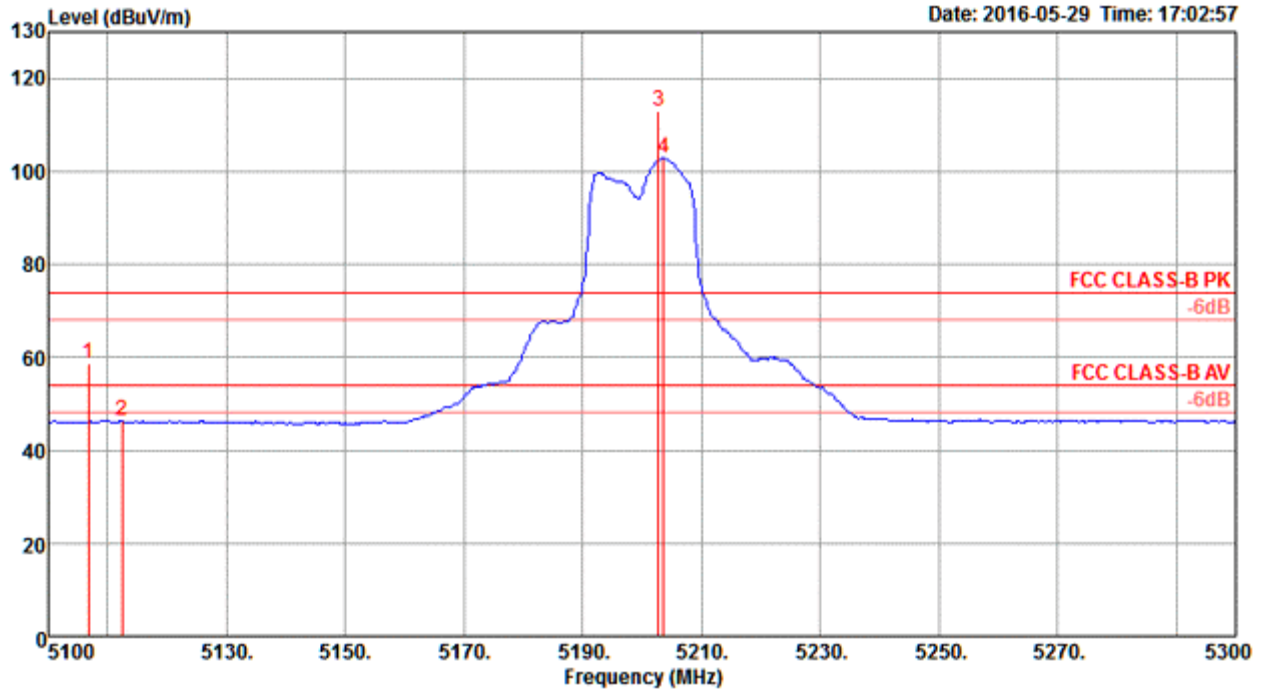
Channel 36



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.40	60.35	74.00	-13.65	53.61	7.90	33.31	34.47	199	360	Peak	VERTICAL
2	5150.00	47.89	54.00	-6.11	41.15	7.90	33.31	34.47	199	360	Average	VERTICAL
3	5183.20	113.36			106.53	7.95	33.35	34.47	199	360	Peak	VERTICAL
4	5183.40	102.83			96.00	7.95	33.35	34.47	199	360	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

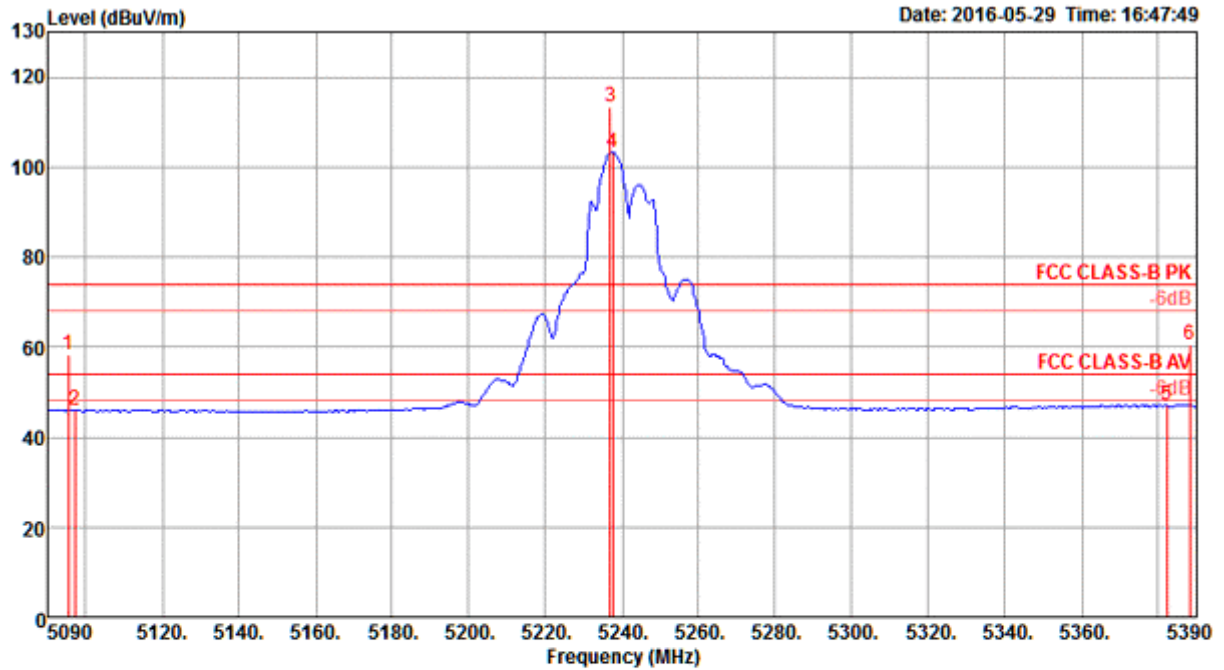
Channel 40



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5106.80	58.71	74.00	-15.29	52.11	7.82	33.25	34.47	198	0 Peak	VERTICAL
2	5112.40	46.43	54.00	-7.57	39.78	7.85	33.27	34.47	198	0 Average	VERTICAL
3	5202.80	113.02			106.12	7.97	33.40	34.47	198	0 Peak	VERTICAL
4	5203.60	102.85			95.95	7.97	33.40	34.47	198	0 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

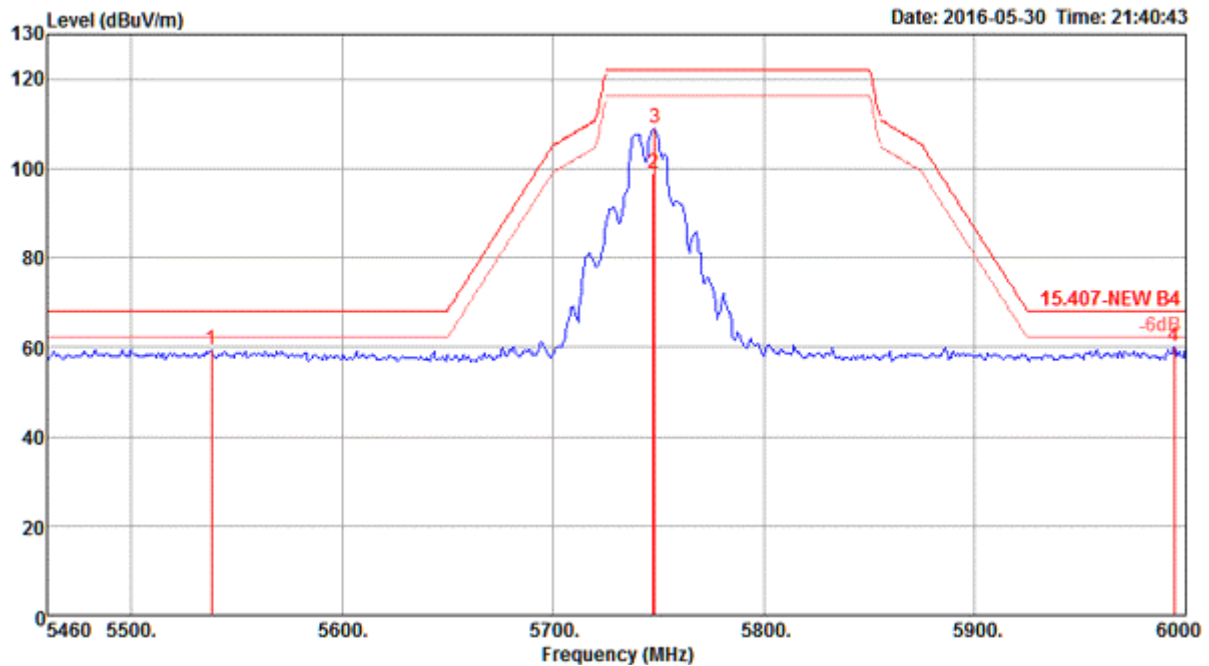


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5095.40	58.32	74.00	-15.68	51.76	7.80	33.23	34.47	311	336	Peak
2	5097.20	45.95	54.00	-8.05	39.39	7.80	33.23	34.47	311	336	Average
3	5237.00	113.22			106.30	7.95	33.44	34.47	311	336	Peak
4	5237.60	103.26			96.34	7.95	33.44	34.47	311	336	Average
5	5382.20	47.22	54.00	-6.78	40.19	7.87	33.63	34.47	311	336	Average
6	5388.20	60.56	74.00	-13.44	53.52	7.86	33.65	34.47	311	336	Peak

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4

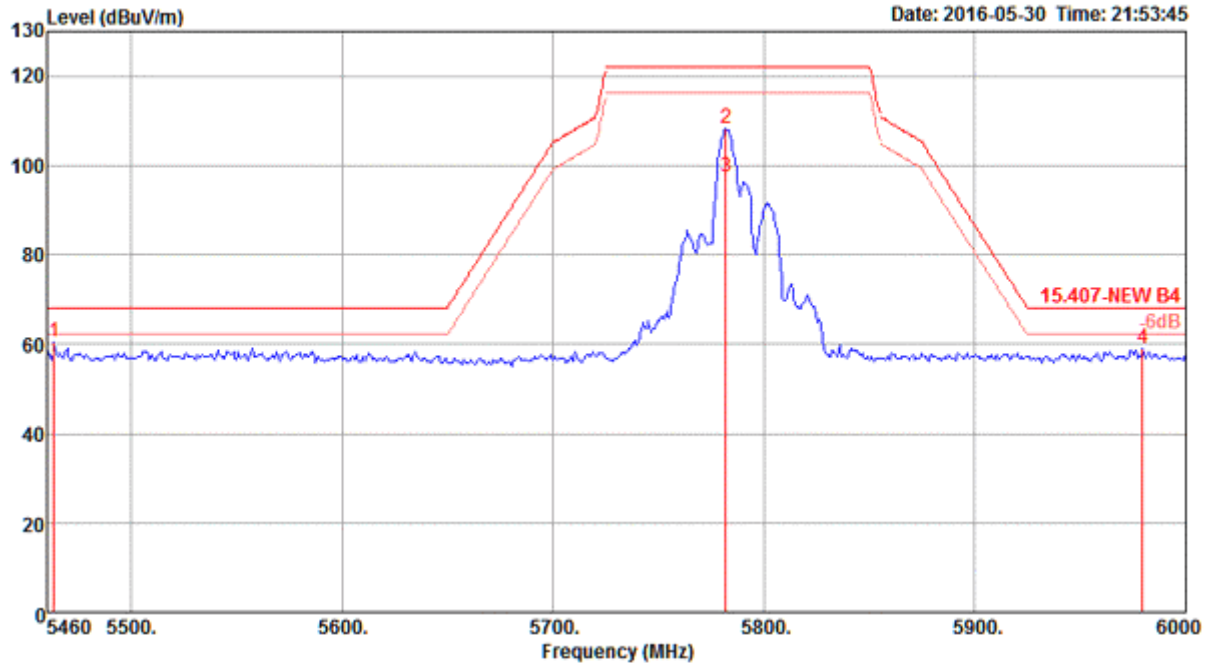
Channel 149



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5537.76	59.42	68.20	-8.78	52.08	7.92	33.90	34.48	230	50 Peak	VERTICAL
2	5747.28	98.99			91.10	7.86	34.55	34.52	230	50 Average	VERTICAL
3	5748.36	108.96			101.07	7.86	34.55	34.52	230	50 Peak	VERTICAL
4	5994.60	60.20	68.20	-8.00	51.76	7.71	35.30	34.57	230	50 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

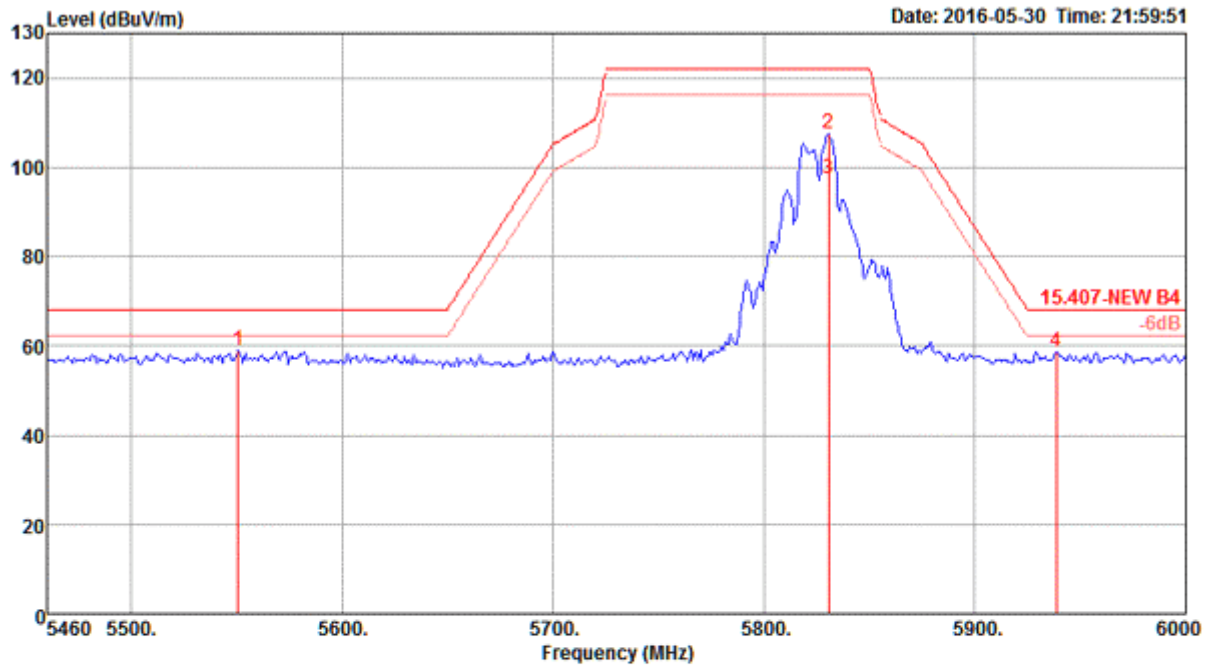
Channel 157



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5463.24	60.35	68.20	-7.85	53.19	7.89	33.74	34.47	218	345	Peak	VERTICAL
2	5781.84	108.10			100.14	7.84	34.65	34.53	218	345	Peak	VERTICAL
3	5781.84	97.45			89.49	7.84	34.65	34.53	218	345	Average	VERTICAL
4	5979.48	58.98	68.20	-9.22	50.58	7.72	35.25	34.57	218	345	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

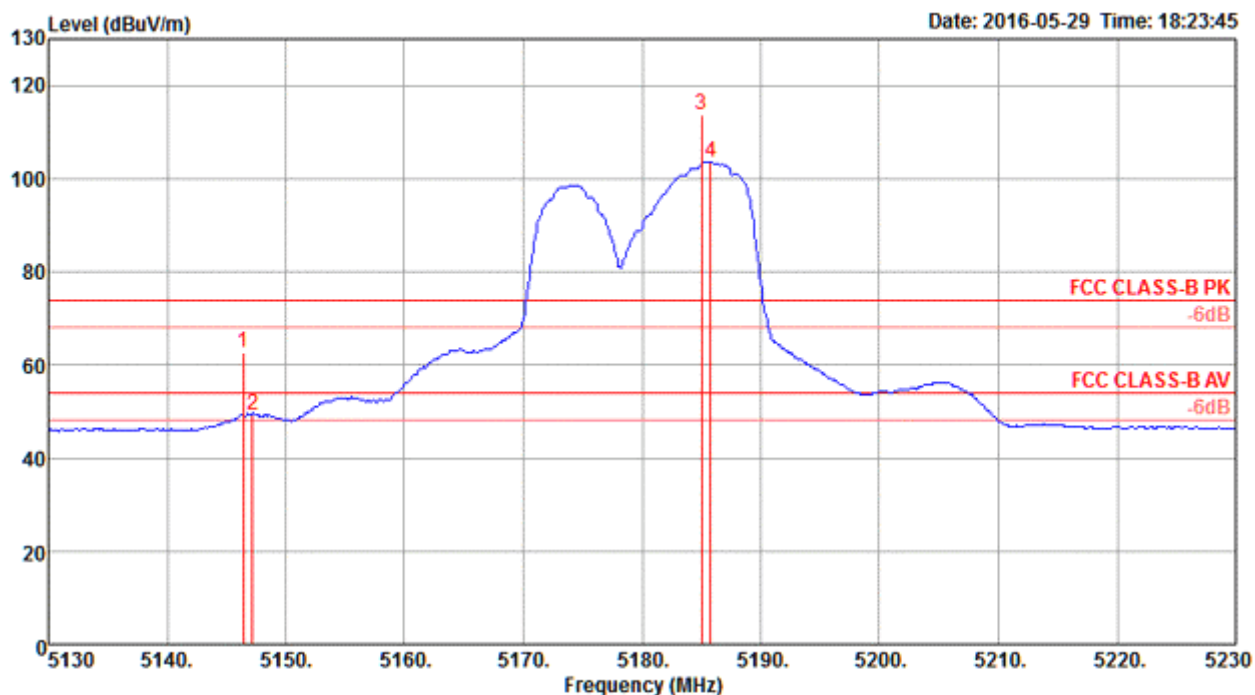


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5550.72	58.98	68.20	-9.22	51.58	7.93	33.95	34.48	227	13	Peak	VERTICAL
2	5830.44	107.48			99.41	7.81	34.80	34.54	227	13	Peak	VERTICAL
3	5830.44	97.40			89.33	7.81	34.80	34.54	227	13	Average	VERTICAL
4	5938.44	58.79	68.20	-9.41	50.50	7.75	35.10	34.56	227	13	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3+ Chain 4

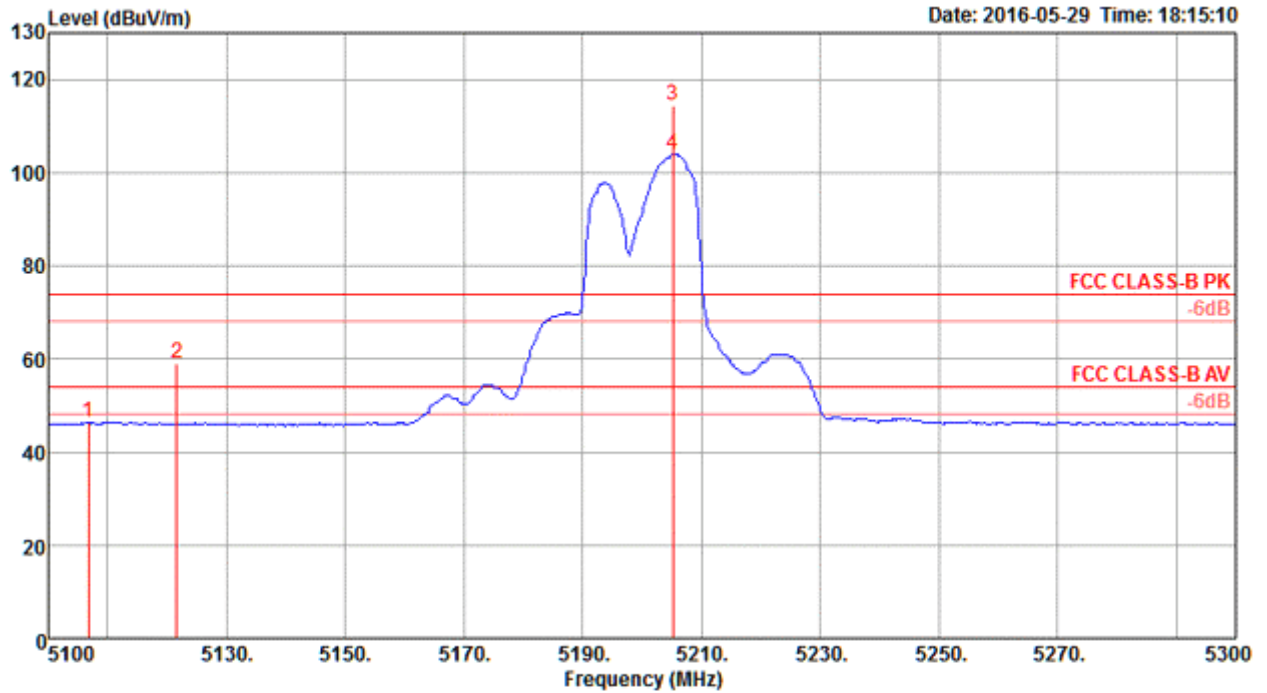
Channel 36



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5146.40	62.72	74.00	-11.28	55.98	7.90	33.31	34.47	205	343	Peak
2	5147.20	49.21	54.00	-4.79	42.47	7.90	33.31	34.47	205	343	Average
3	5185.00	113.66			106.83	7.95	33.35	34.47	205	343	Peak
4	5185.80	103.48			96.65	7.95	33.35	34.47	205	343	Average

Item 3, 4 are the fundamental frequency at 5180 MHz.

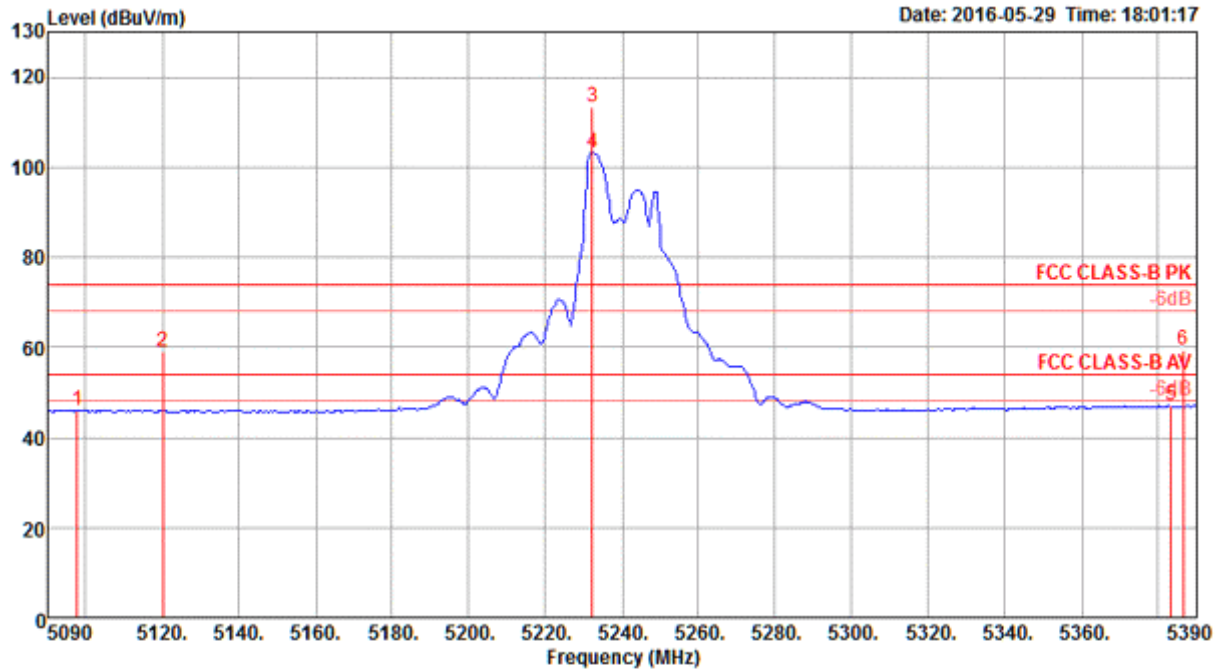
Channel 40



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5106.80	46.35	54.00	-7.65	39.75	7.82	33.25	34.47	202	342	Average
2	5121.60	58.99	74.00	-15.01	52.34	7.85	33.27	34.47	202	342	Peak
3	5205.20	114.28			107.38	7.97	33.40	34.47	202	342	Peak
4	5205.20	104.07			97.17	7.97	33.40	34.47	202	342	Average

Item 2, 3 are the fundamental frequency at 5200 MHz.

Channel 48

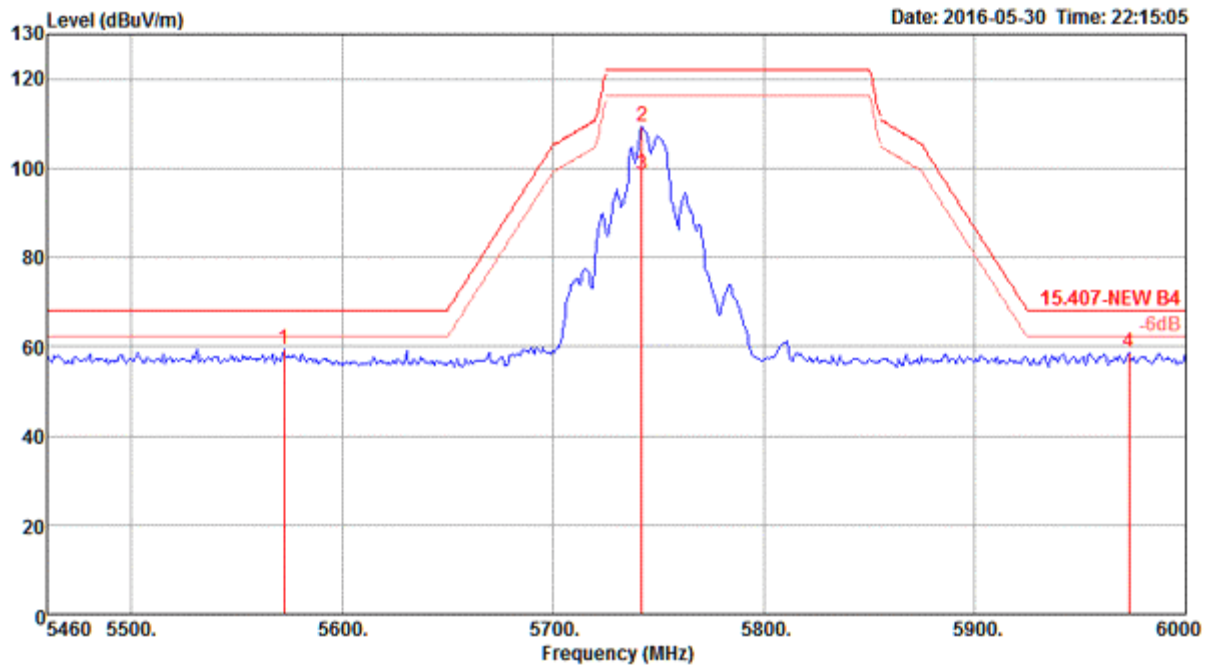


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5097.80	46.07	54.00	-7.93	39.47	7.82	33.25	34.47	199	311 Average	HORIZONTAL
2	5120.00	59.19	74.00	-14.81	52.54	7.85	33.27	34.47	199	311 Peak	HORIZONTAL
3	5232.20	113.19			106.27	7.95	33.44	34.47	199	311 Peak	HORIZONTAL
4	5232.20	103.08			96.16	7.95	33.44	34.47	199	311 Average	HORIZONTAL
5	5383.40	47.21	54.00	-6.79	40.18	7.87	33.63	34.47	199	311 Average	HORIZONTAL
6	5386.40	59.50	74.00	-14.50	52.46	7.86	33.65	34.47	199	311 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5240 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4

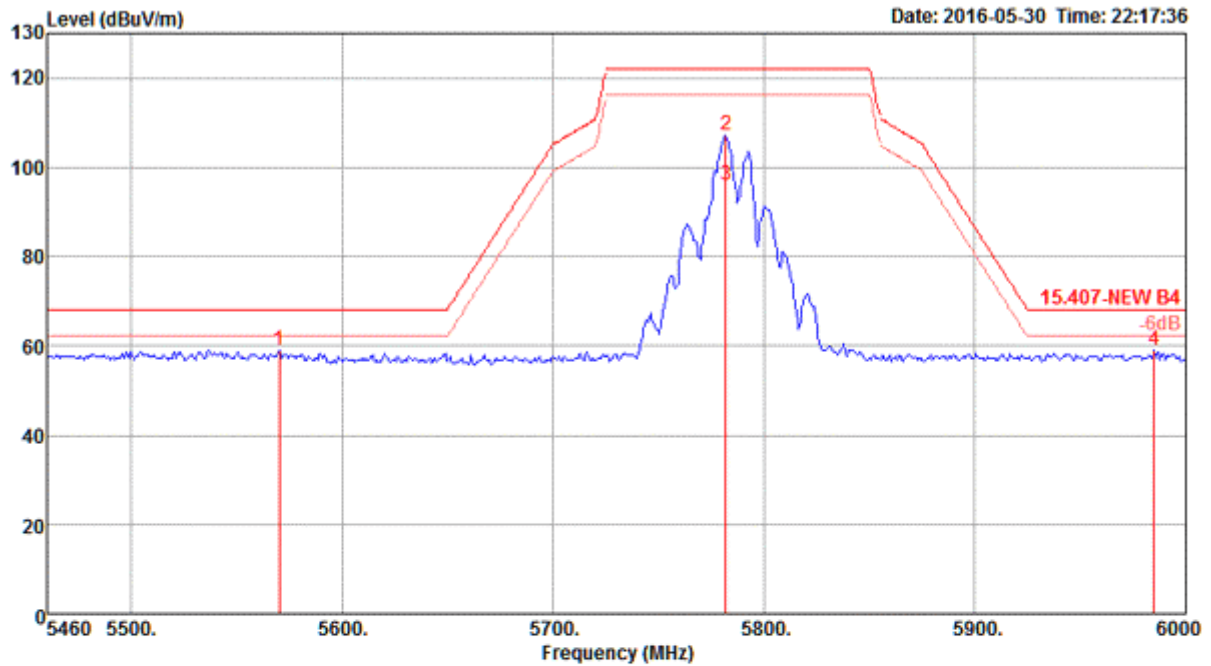
Channel 149



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5572.32	59.31	68.20	-8.89	51.85	7.94	34.00	34.48	232	49 Peak	HORIZONTAL
2	5741.88	109.22			101.33	7.86	34.55	34.52	232	49 Peak	HORIZONTAL
3	5741.88	98.66			90.77	7.86	34.55	34.52	232	49 Average	HORIZONTAL
4	5973.00	58.51	68.20	-9.69	50.14	7.73	35.20	34.56	232	49 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

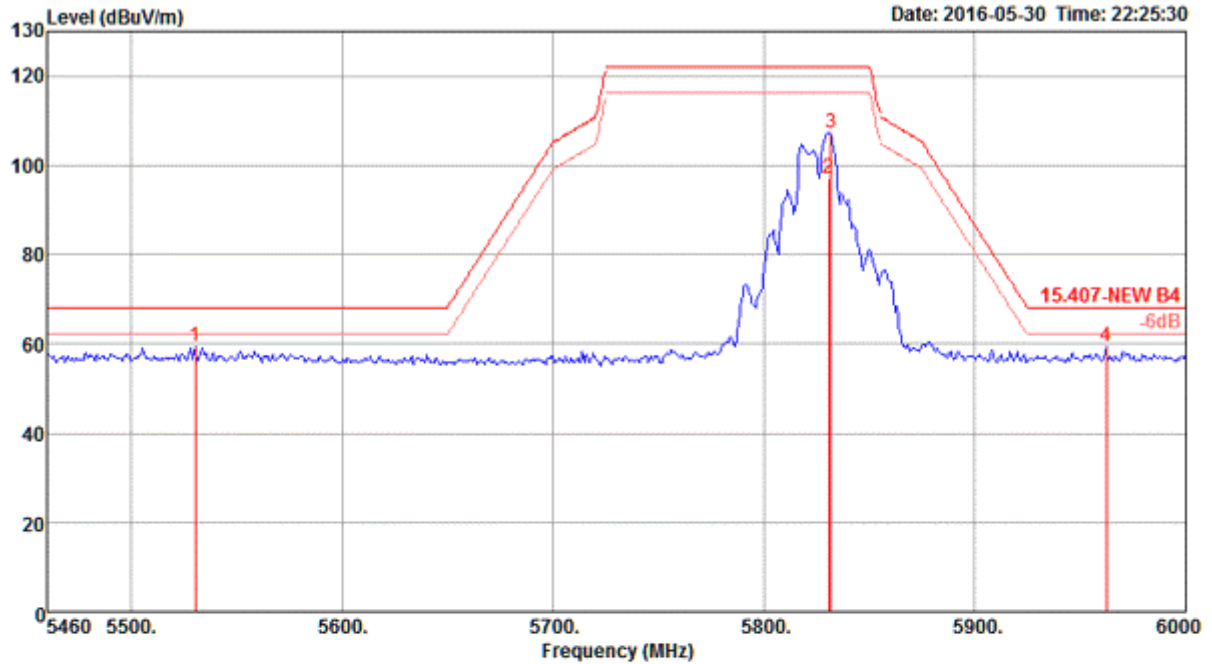
Channel 157



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5570.16	59.05	68.20	-9.15	51.59	7.94	34.00	34.48	228	6	Peak	VERTICAL
2	5781.84	107.22			99.26	7.84	34.65	34.53	228	6	Peak	VERTICAL
3	5781.84	95.82			87.86	7.84	34.65	34.53	228	6	Average	VERTICAL
4	5984.88	59.12	68.20	-9.08	50.72	7.72	35.25	34.57	228	6	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

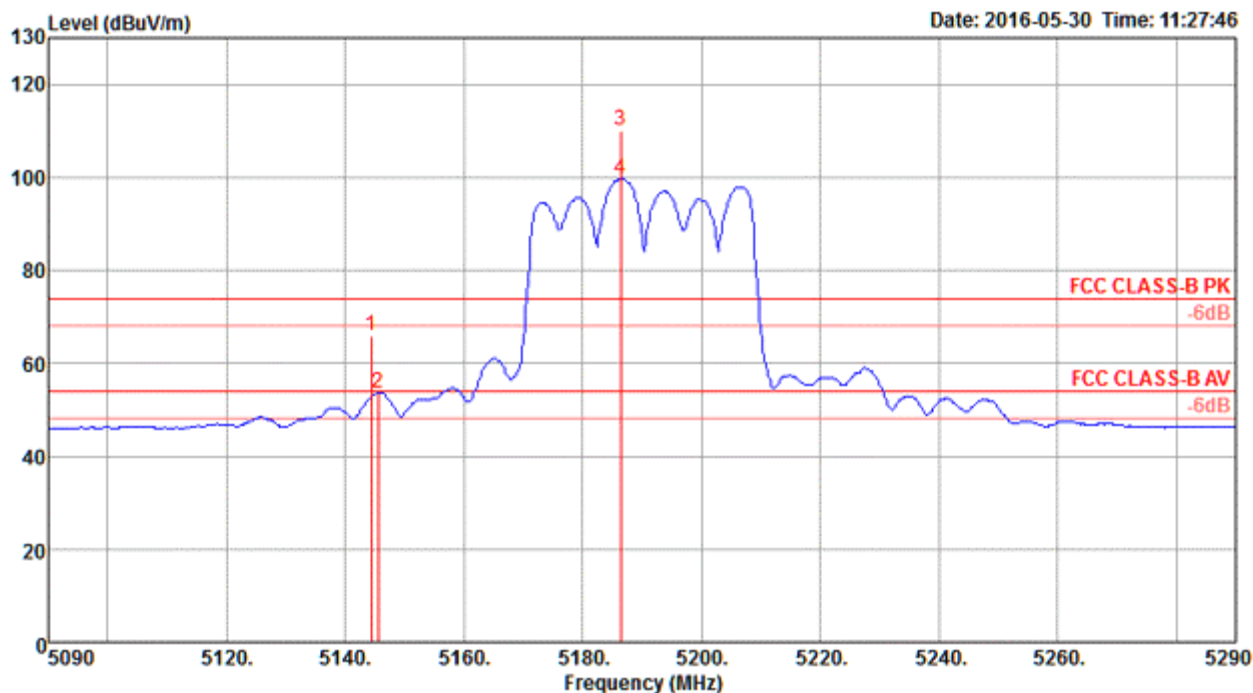


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5530.20	59.26	68.20	-8.94	51.92	7.92	33.90	34.48	228	13	Peak	VERTICAL
2	5830.44	97.14			89.07	7.81	34.80	34.54	228	13	Peak	VERTICAL
3	5831.52	107.03			98.96	7.81	34.80	34.54	228	13	Average	VERTICAL
4	5962.20	59.44	68.20	-8.76	51.07	7.73	35.20	34.56	228	13	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3+ Chain 4

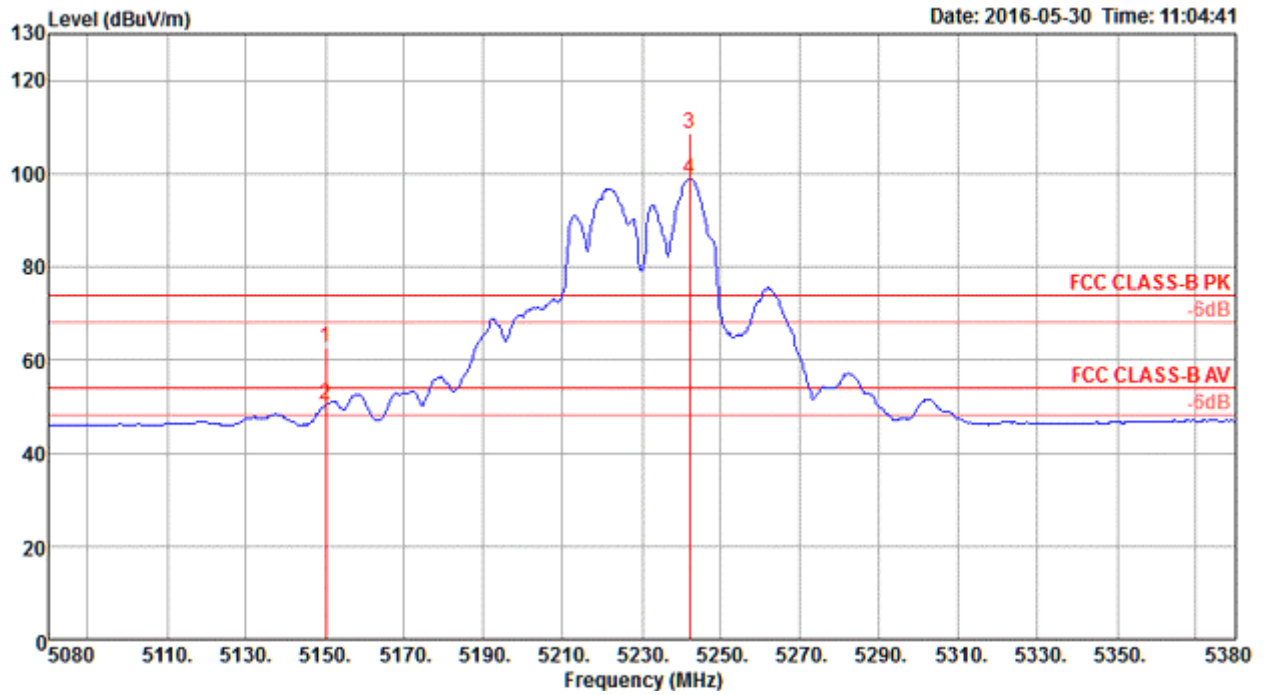
Channel 38



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.40	65.91	74.00	-8.09	59.17	7.90	33.31	34.47	206	306	Peak	HORIZONTAL
2	5145.60	53.59	54.00	-0.41	46.85	7.90	33.31	34.47	206	306	Average	HORIZONTAL
3	5186.40	110.07			103.24	7.95	33.35	34.47	206	306	Peak	HORIZONTAL
4	5186.40	99.57			92.74	7.95	33.35	34.47	206	306	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

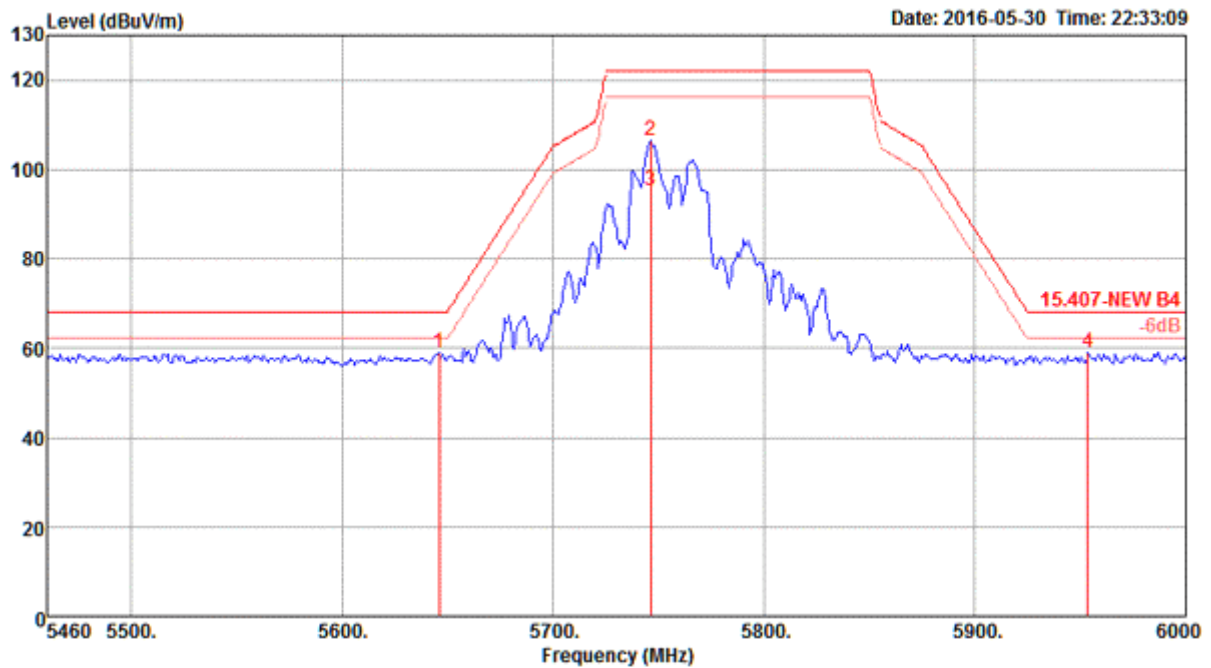


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5150.00	62.50	74.00	-11.50	55.76	7.90	33.31	34.47	152	303	Peak	VERTICAL
2	5150.00	50.21	54.00	-3.79	43.47	7.90	33.31	34.47	152	303	Average	VERTICAL
3	5242.00	108.77			101.85	7.95	33.44	34.47	152	303	Peak	VERTICAL
4	5242.00	98.85			91.93	7.95	33.44	34.47	152	303	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3+ Chain 4

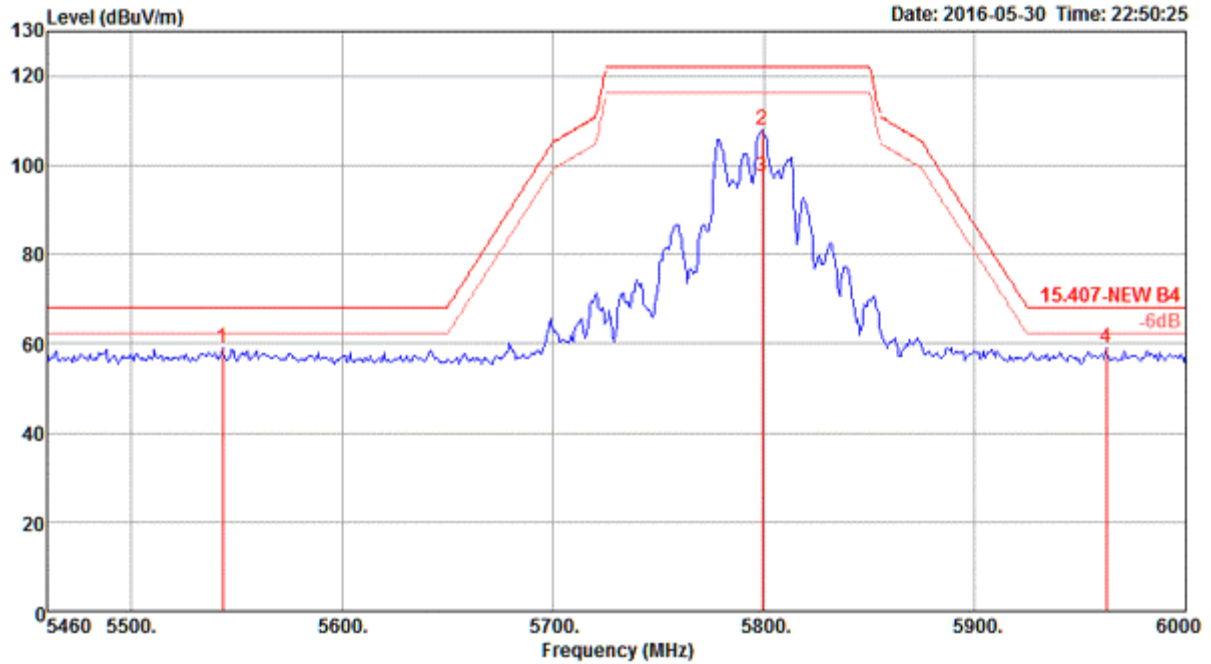
Channel 151



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5645.76	58.93	68.20	-9.27	51.26	7.92	34.25	34.50	220	33	Peak	VERTICAL
2	5746.20	106.58			98.69	7.86	34.55	34.52	220	33	Peak	VERTICAL
3	5746.20	95.41			87.52	7.86	34.55	34.52	220	33	Average	VERTICAL
4	5953.56	59.18	68.20	-9.02	50.85	7.74	35.15	34.56	220	33	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

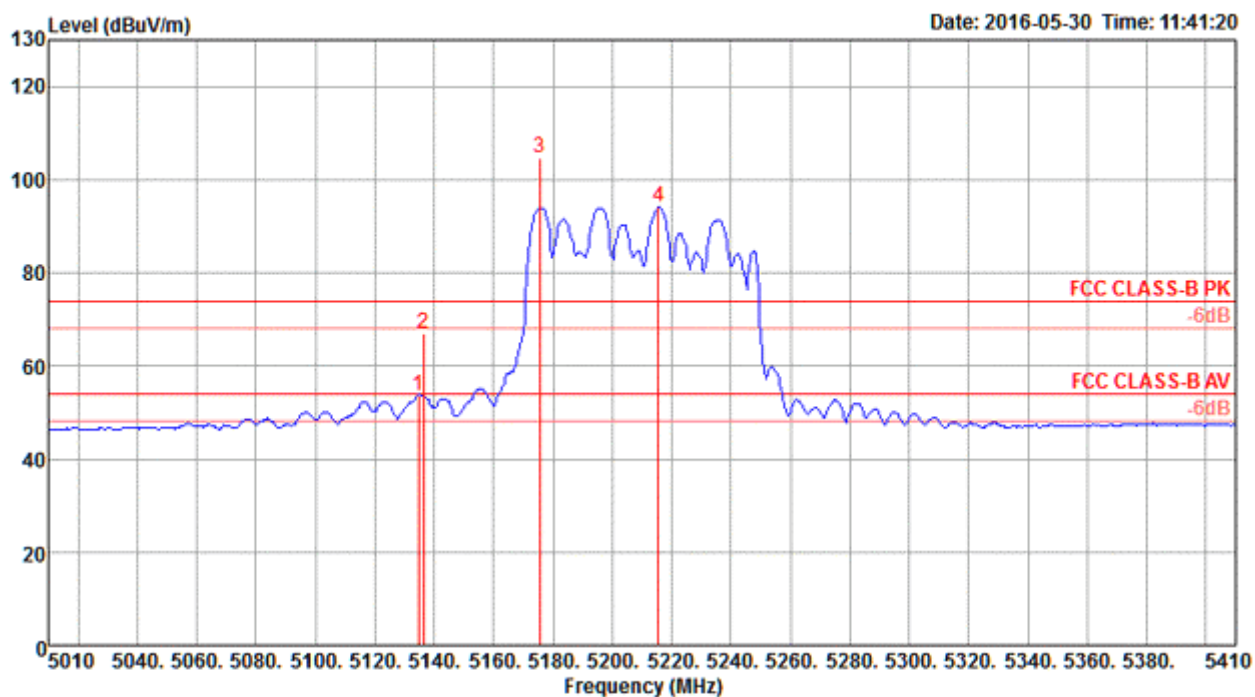


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5543.16	59.17	68.20	-9.03	51.77	7.93	33.95	34.48	245	64	Peak	HORIZONTAL
2	5799.12	107.85			99.85	7.83	34.70	34.53	245	64	Peak	HORIZONTAL
3	5799.12	97.41			89.41	7.83	34.70	34.53	245	64	Average	HORIZONTAL
4	5962.20	59.09	68.20	-9.11	50.72	7.73	35.20	34.56	245	64	Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3

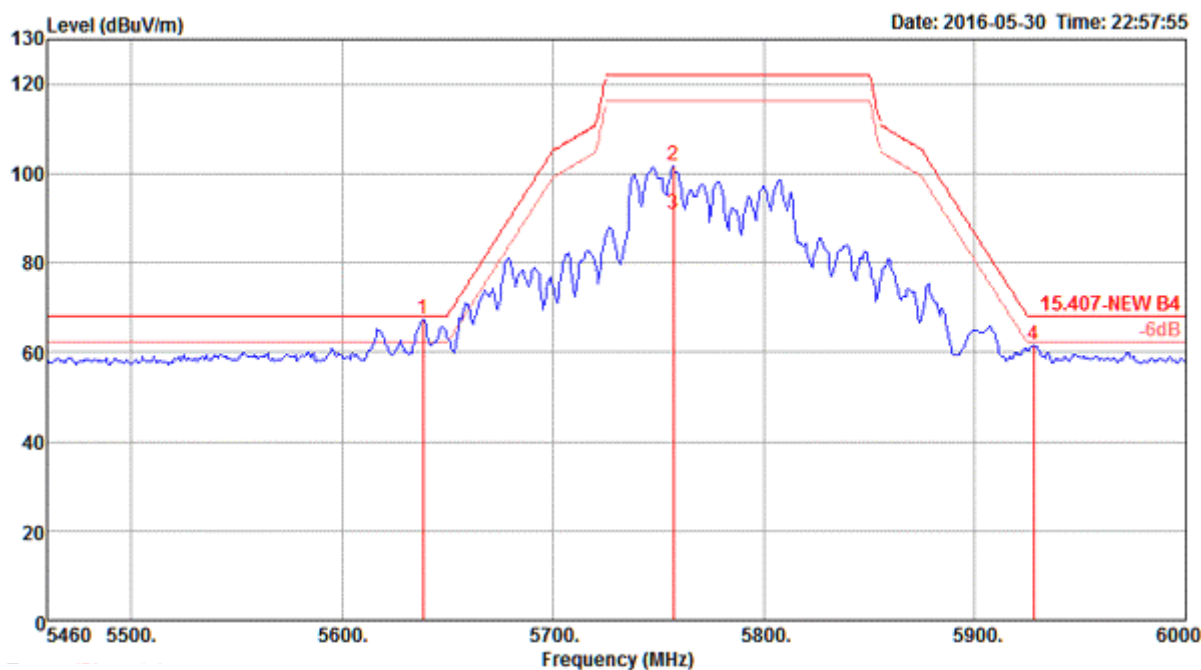
Channel 42



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5134.80	53.57	54.00	-0.43	46.87	7.88	33.29	34.47	188	348	Average	VERTICAL
2	5136.40	67.17	74.00	-6.83	60.47	7.88	33.29	34.47	188	348	Peak	VERTICAL
3	5175.60	104.61			97.78	7.95	33.35	34.47	188	348	Peak	VERTICAL
4	5215.60	94.18			87.28	7.97	33.40	34.47	188	348	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5638.20	67.24	68.20	-0.96	59.61	7.93	34.20	34.50	233	44	Peak	VERTICAL
2	5757.00	101.60			93.67	7.85	34.60	34.52	233	44	Peak	VERTICAL
3	5757.00	90.90			82.97	7.85	34.60	34.52	233	44	Average	VERTICAL
4	5927.64	61.41	68.20	-6.79	53.12	7.75	35.10	34.56	233	44	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

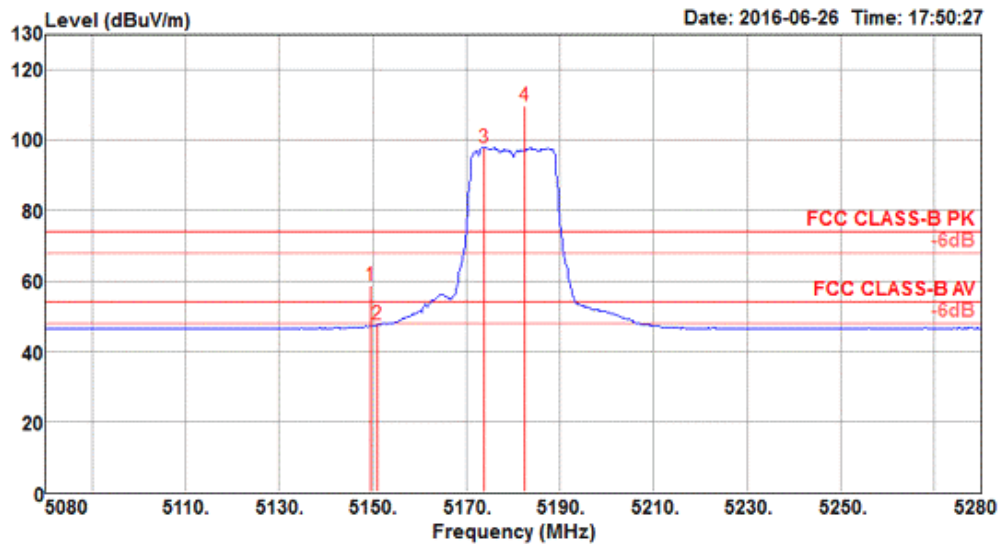
Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

<For Beamforming Mode>

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11a c MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3+ Chain 4

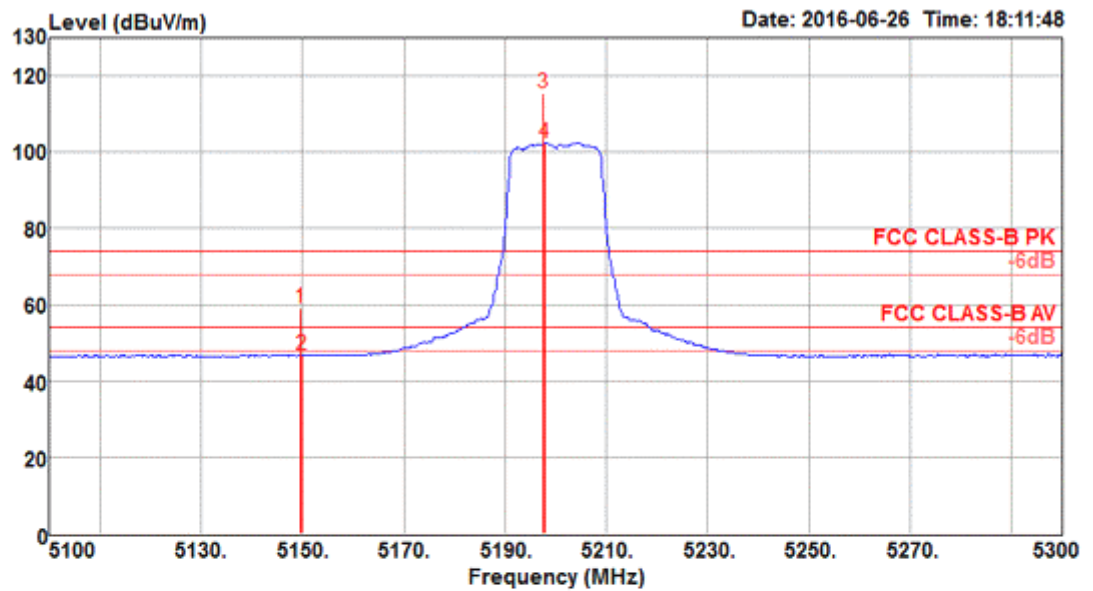
Channel 36



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	5149.68	58.77	74.00	-15.23	51.35	7.48	34.85	34.91	170	33 Peak	HORIZONTAL
2	5151.00	47.48	54.00	-6.52	40.06	7.48	34.85	34.91	170	33 Average	HORIZONTAL
3	5173.91	97.83			90.38	7.48	34.88	34.91	170	33 Average	HORIZONTAL
4	5182.56	109.86			102.41	7.48	34.88	34.91	170	33 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

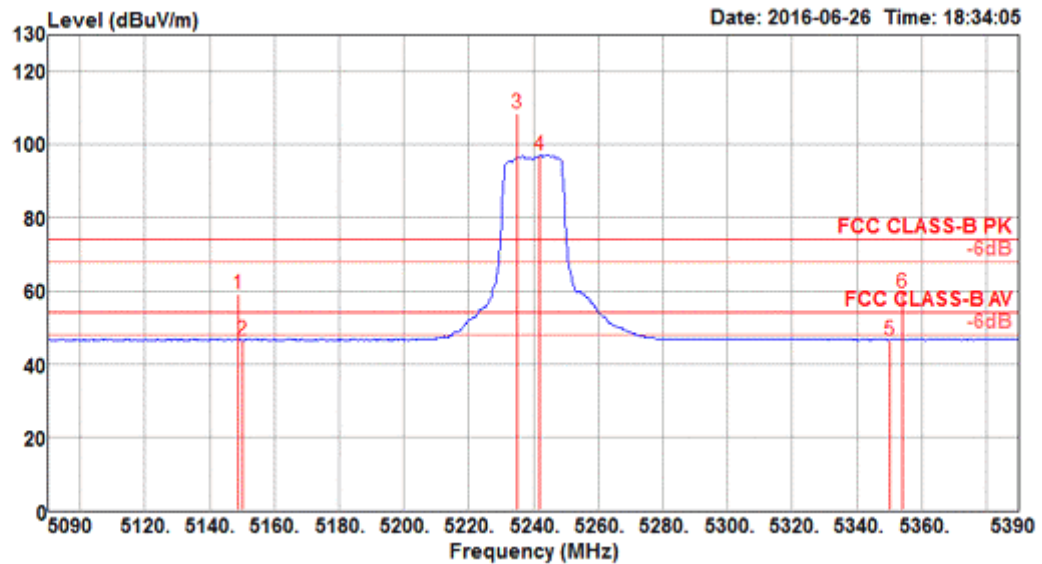
Channel 40



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5149.68	59.10	74.00	-14.90	51.68	7.48	34.85	34.91	160	306 Peak	VERTICAL
2	5150.00	46.62	54.00	-7.38	39.20	7.48	34.85	34.91	160	306 Average	VERTICAL
3	5197.44	115.44			107.97	7.48	34.90	34.91	160	306 Peak	VERTICAL
4	5197.76	102.30			94.83	7.48	34.90	34.91	160	306 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

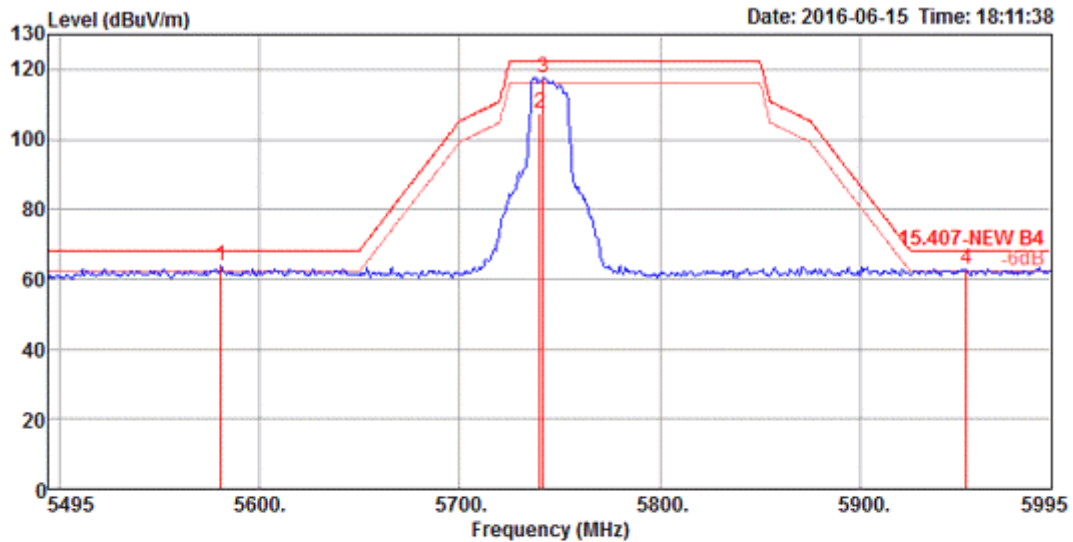


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor			
			dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5149.04	59.00	74.00	-15.00	51.58	7.48	34.85	34.91	154	334	Peak
2	5150.00	46.56	54.00	-7.44	39.14	7.48	34.85	34.91	154	334	Average
3	5235.19	108.49			100.96	7.50	34.94	34.91	154	334	Peak
4	5241.92	97.18			89.65	7.50	34.94	34.91	154	334	Average
5	5350.00	46.60	54.00	-7.40	38.90	7.56	35.05	34.91	154	334	Average
6	5353.85	59.43	74.00	-14.57	51.73	7.56	35.05	34.91	154	334	Peak

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4

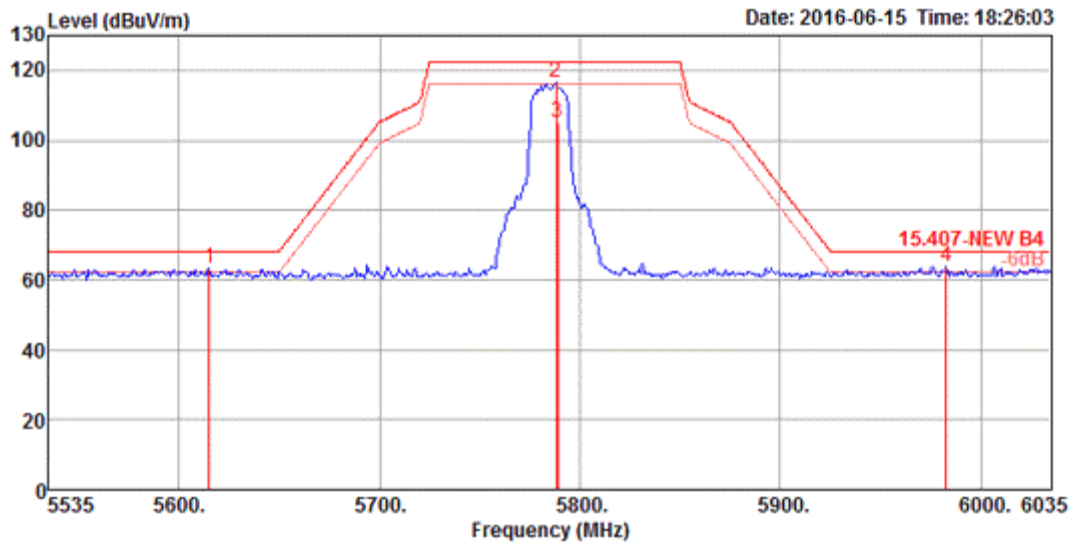
Channel 149



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5581.00	63.96	68.20	-4.24	54.39	8.42	34.03	32.88	232	229 Peak	VERTICAL
2	5740.00	107.24			97.21	8.42	34.50	32.89	232	229 Average	VERTICAL
3	5742.00	117.54			107.51	8.42	34.50	32.89	232	229 Peak	VERTICAL
4	5953.00	62.95	68.20	-5.25	52.43	8.37	35.06	32.91	232	229 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

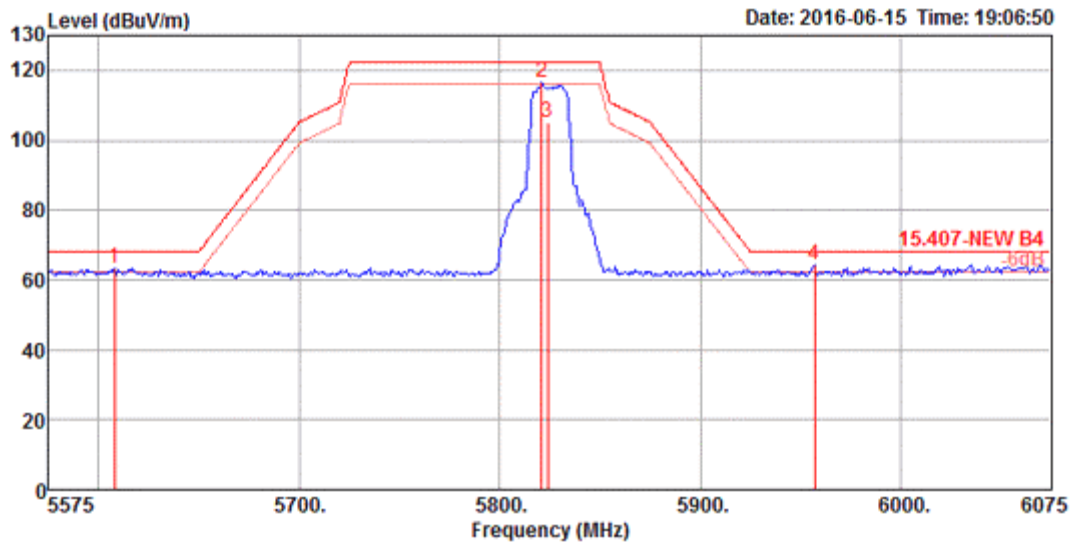
Channel 157



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5615.00	63.26	68.20	-4.94	53.55	8.46	34.13	32.88	219	182	Peak
2	5788.00	116.48			106.38	8.41	34.59	32.90	219	182	Peak
3	5789.00	105.13			94.99	8.40	34.64	32.90	219	182	Average
4	5983.00	63.94	68.20	-4.26	53.35	8.36	35.15	32.92	219	182	Peak

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

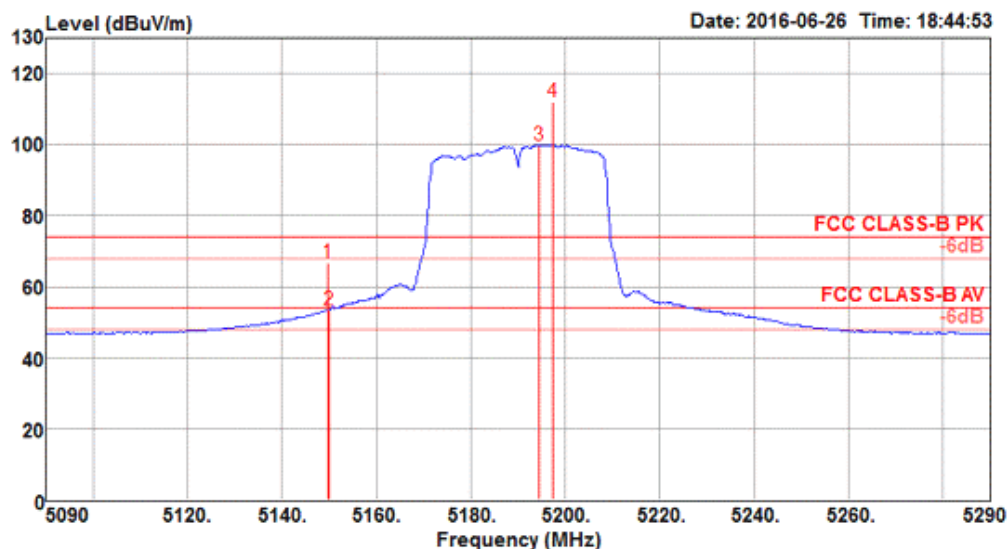


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5608.00	63.32	68.20	-4.88	53.61	8.46	34.13	32.88	222	188 Peak	VERTICAL
2	5821.00	116.40			106.21	8.40	34.69	32.90	222	188 Peak	VERTICAL
3	5824.00	105.11			94.89	8.39	34.73	32.90	222	188 Average	VERTICAL
4	5957.00	64.49	68.20	-3.71	53.98	8.37	35.06	32.92	222	188 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3+ Chain 4

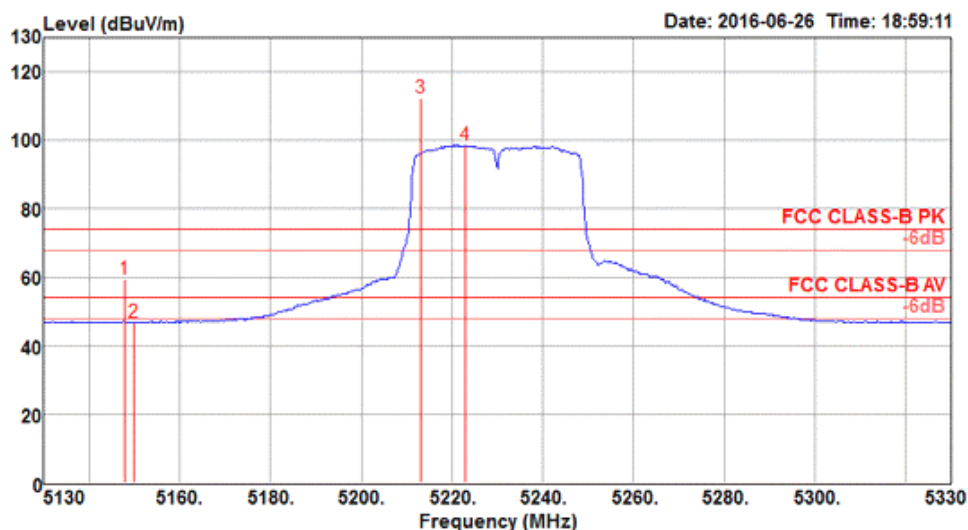
Channel 38



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.62	66.73	74.00	-7.27	59.31	7.48	34.85	34.91	150	308	Peak	VERTICAL
2	5150.00	53.40	54.00	-0.60	45.98	7.48	34.85	34.91	150	308	Average	VERTICAL
3	5194.49	99.85			92.38	7.48	34.90	34.91	150	308	Average	VERTICAL
4	5197.37	112.03			104.56	7.48	34.90	34.91	150	308	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

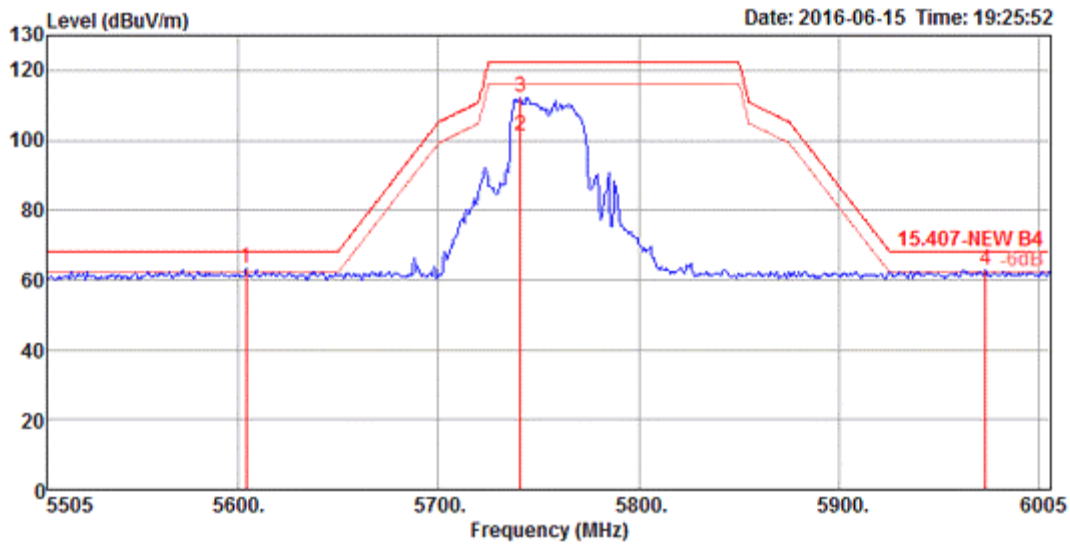


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5147.95	59.44	74.00	-14.56	52.02	7.48	34.85	34.91	151	349	Peak
2	5150.00	46.76	54.00	-7.24	39.34	7.48	34.85	34.91	151	349	Average
3	5213.01	112.26			104.77	7.49	34.91	34.91	151	349	Peak
4	5222.95	98.48			90.96	7.50	34.93	34.91	151	349	Average

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3+ Chain 4

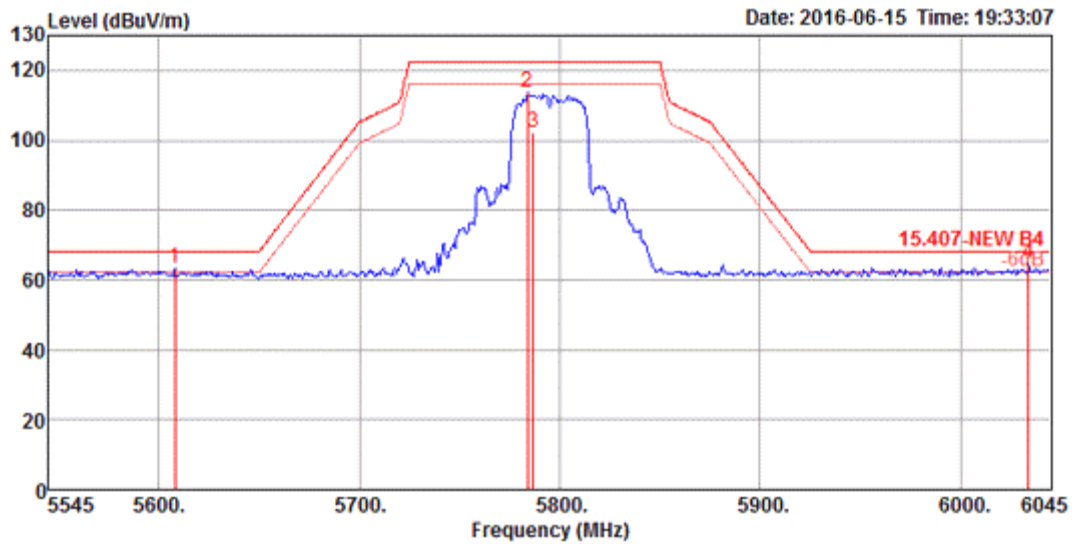
Channel 151



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5604.00	63.31	68.20	-4.89	53.64	8.47	34.08	32.88	204	227 Peak	HORIZONTAL
2	5741.00	101.02			90.99	8.42	34.50	32.89	204	227 Average	HORIZONTAL
3	5741.00	112.20			102.17	8.42	34.50	32.89	204	227 Peak	HORIZONTAL
4	5973.00	62.96	68.20	-5.24	52.40	8.37	35.11	32.92	204	227 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

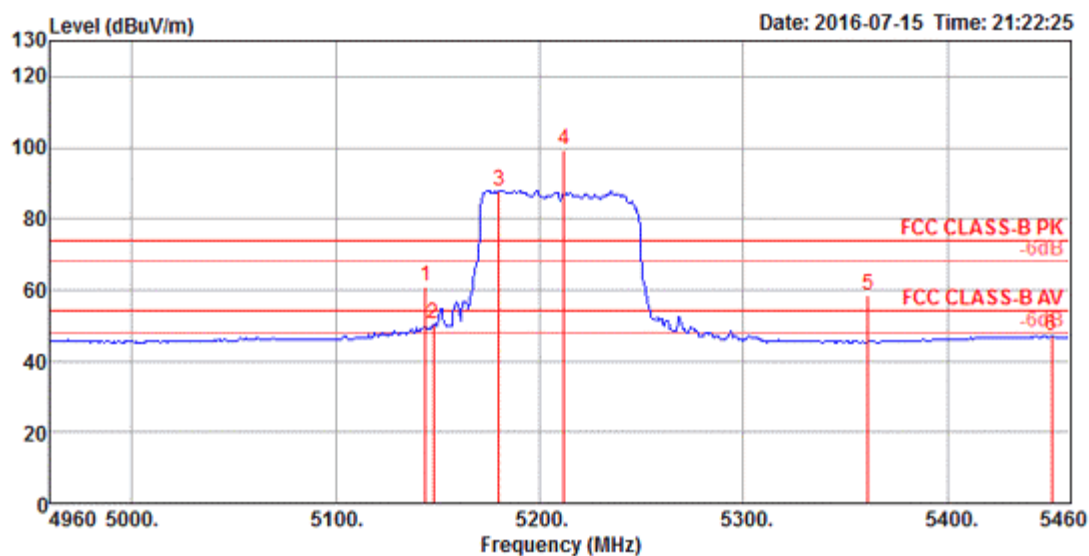


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5608.00	63.26	68.20	-4.94	53.55	8.46	34.13	32.88	222	168 Peak	VERTICAL
2	5784.00	113.58			103.48	8.41	34.59	32.90	222	168 Peak	VERTICAL
3	5787.00	102.07			91.97	8.41	34.59	32.90	222	168 Average	VERTICAL
4	6034.00	64.90	68.20	-3.30	54.11	8.47	35.24	32.92	222	168 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3

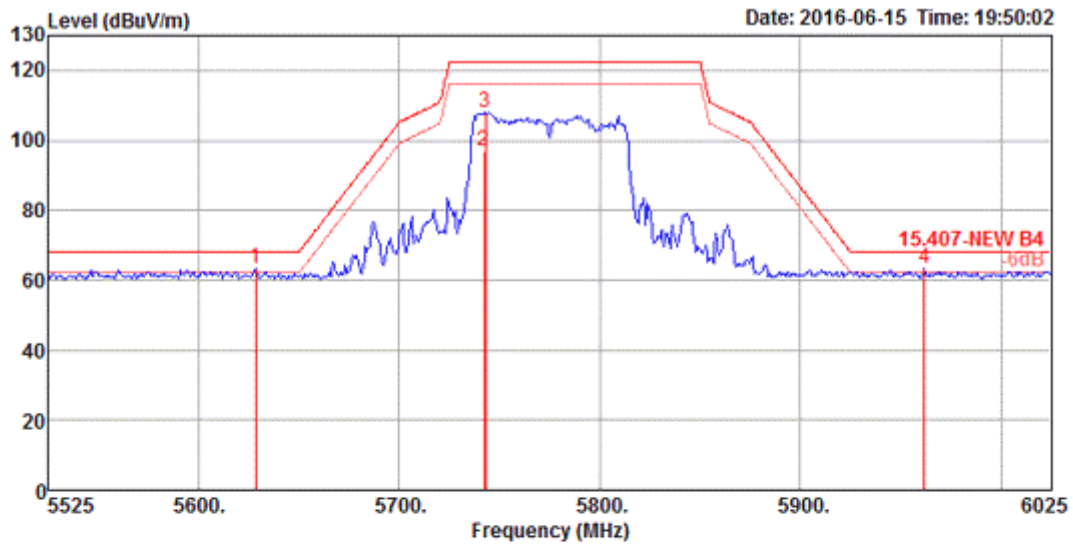
Channel 42



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5144.00	60.89	74.00	-13.11	56.34	7.88	33.17	36.50	168	356 Peak	VERTICAL
2	5148.00	50.53	54.00	-3.47	45.98	7.88	33.17	36.50	168	356 Average	VERTICAL
3	5180.00	87.70			83.05	7.91	33.23	36.49	168	356 Average	VERTICAL
4	5212.00	99.15			94.44	7.92	33.28	36.49	168	356 Peak	VERTICAL
5	5361.00	58.57	74.00	-15.43	53.60	7.88	33.55	36.46	168	356 Peak	VERTICAL
6	5451.00	46.86	54.00	-7.14	41.53	8.05	33.72	36.44	168	356 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5628.00	63.16	68.20	-5.04	53.41	8.46	34.17	32.88	202	184 Peak	VERTICAL
2	5742.00	97.11			87.08	8.42	34.50	32.89	202	184 Average	VERTICAL
3	5743.00	107.83			97.80	8.42	34.50	32.89	202	184 Peak	VERTICAL
4	5962.00	63.20	68.20	-5.00	52.64	8.37	35.11	32.92	202	184 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

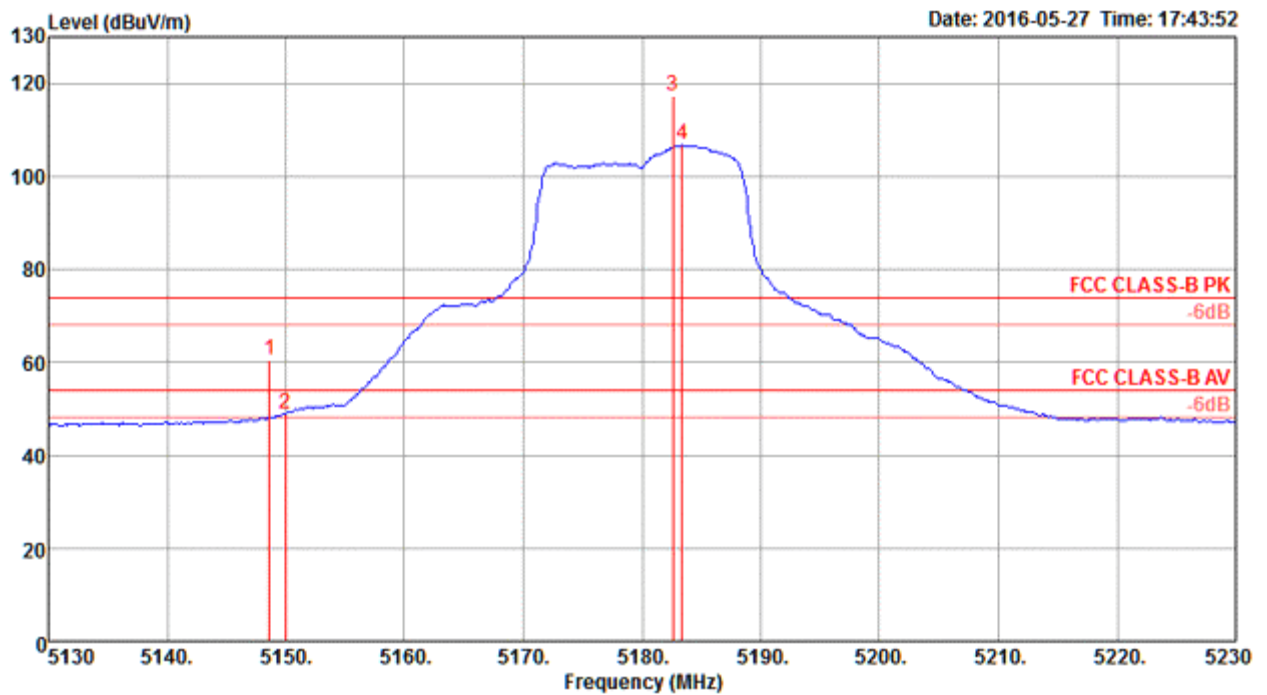
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

For Directional antenna:

<For Non-Beamforming Mode>

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3+ Chain 4

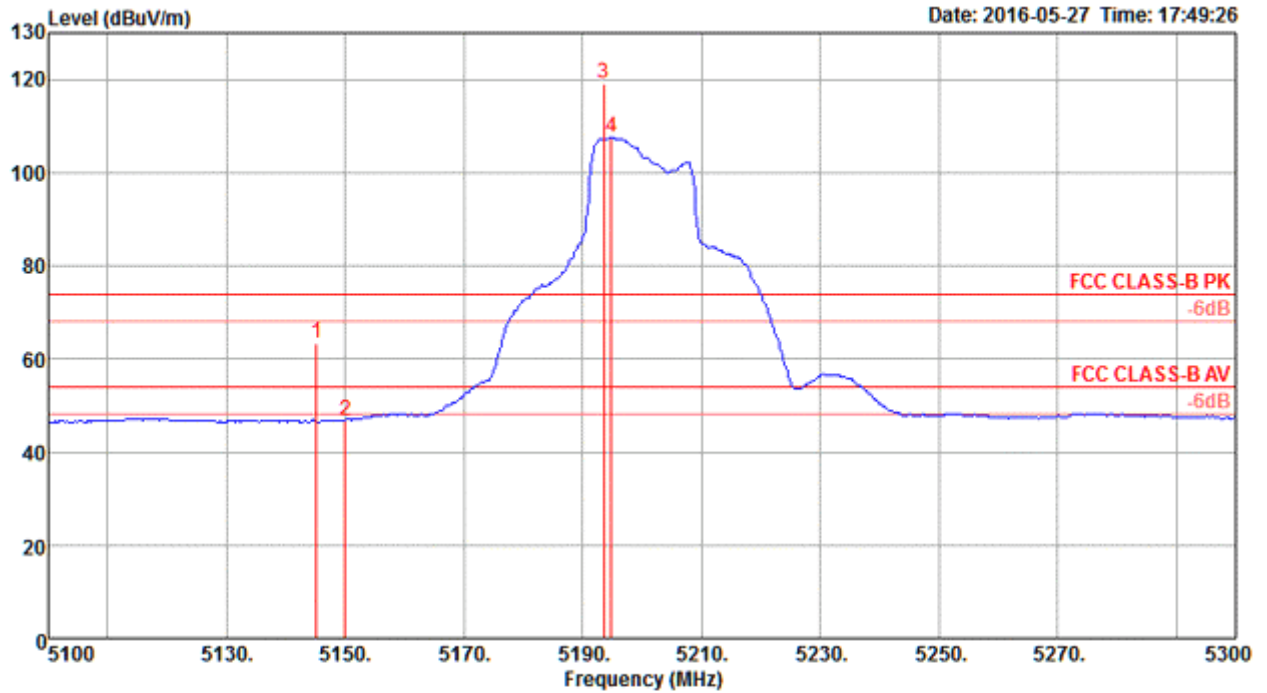
Channel 36



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.60	60.47	74.00	-13.53	53.73	7.90	33.31	34.47	195	11	Peak	VERTICAL
2	5150.00	48.84	54.00	-5.16	42.10	7.90	33.31	34.47	195	11	Average	VERTICAL
3	5182.60	117.23			110.40	7.95	33.35	34.47	195	11	Peak	VERTICAL
4	5183.40	106.66			99.83	7.95	33.35	34.47	195	11	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

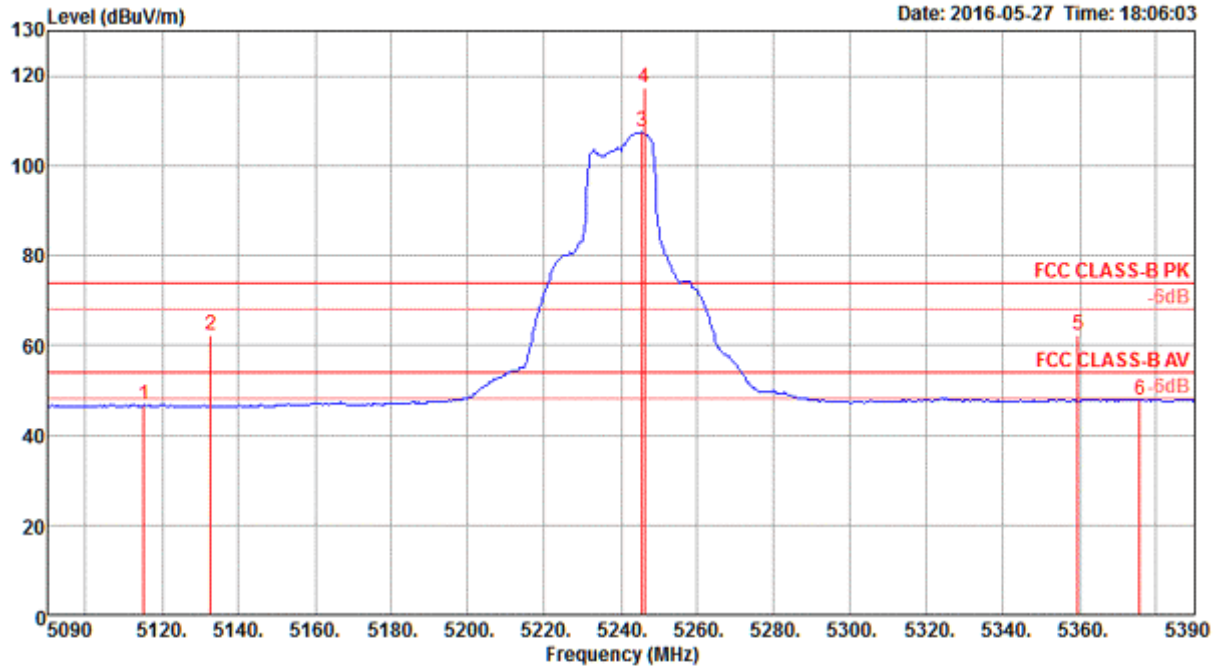
Channel 40



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5145.20	63.54	74.00	-10.46	56.80	7.90	33.31	34.47	188	360	Peak	HORIZONTAL
2	5150.00	46.64	54.00	-7.36	39.90	7.90	33.31	34.47	188	360	Average	HORIZONTAL
3	5193.60	118.97			112.08	7.98	33.38	34.47	188	360	Peak	HORIZONTAL
4	5194.80	107.65			100.76	7.98	33.38	34.47	188	360	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

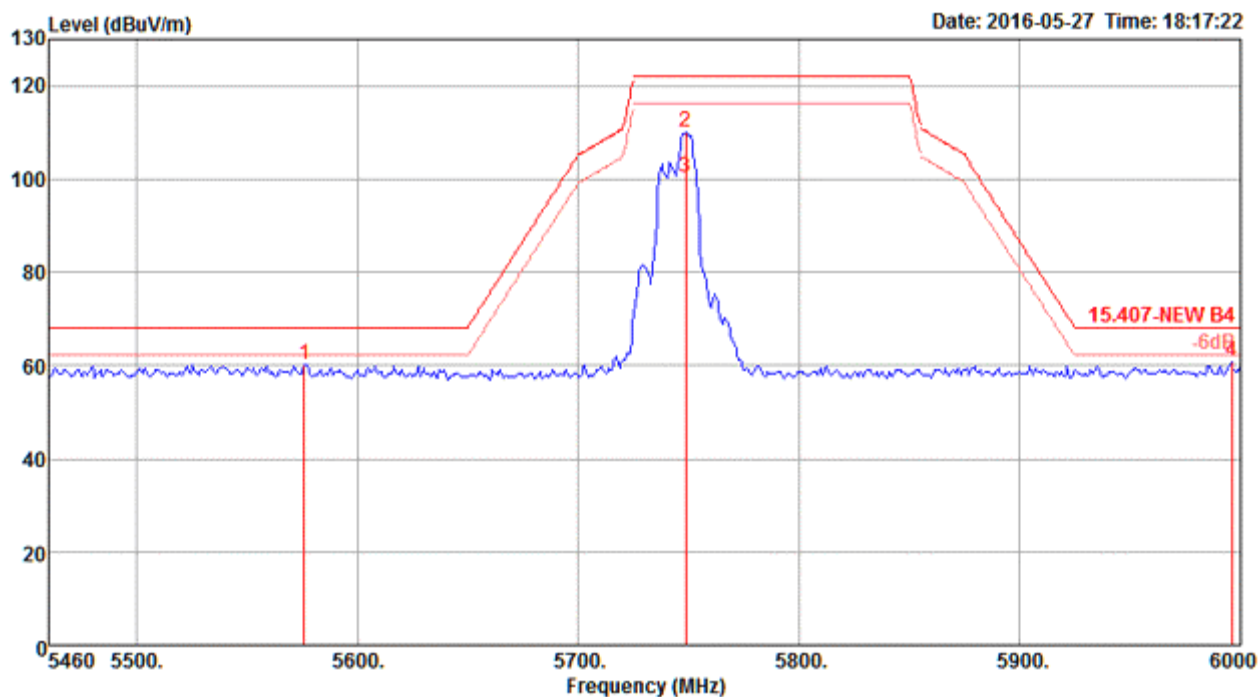


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5115.20	46.60	54.00	-7.40	39.95	7.85	33.27	34.47	190	9	Average	VERTICAL
2	5132.60	62.35	74.00	-11.65	55.65	7.88	33.29	34.47	190	9	Peak	VERTICAL
3	5245.40	107.44			100.52	7.95	33.44	34.47	190	9	Average	VERTICAL
4	5246.00	117.26			110.34	7.95	33.44	34.47	190	9	Peak	VERTICAL
5	5359.40	62.25	74.00	-11.75	55.23	7.88	33.61	34.47	190	9	Peak	VERTICAL
6	5375.60	47.95	54.00	-6.05	40.92	7.87	33.63	34.47	190	9	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4

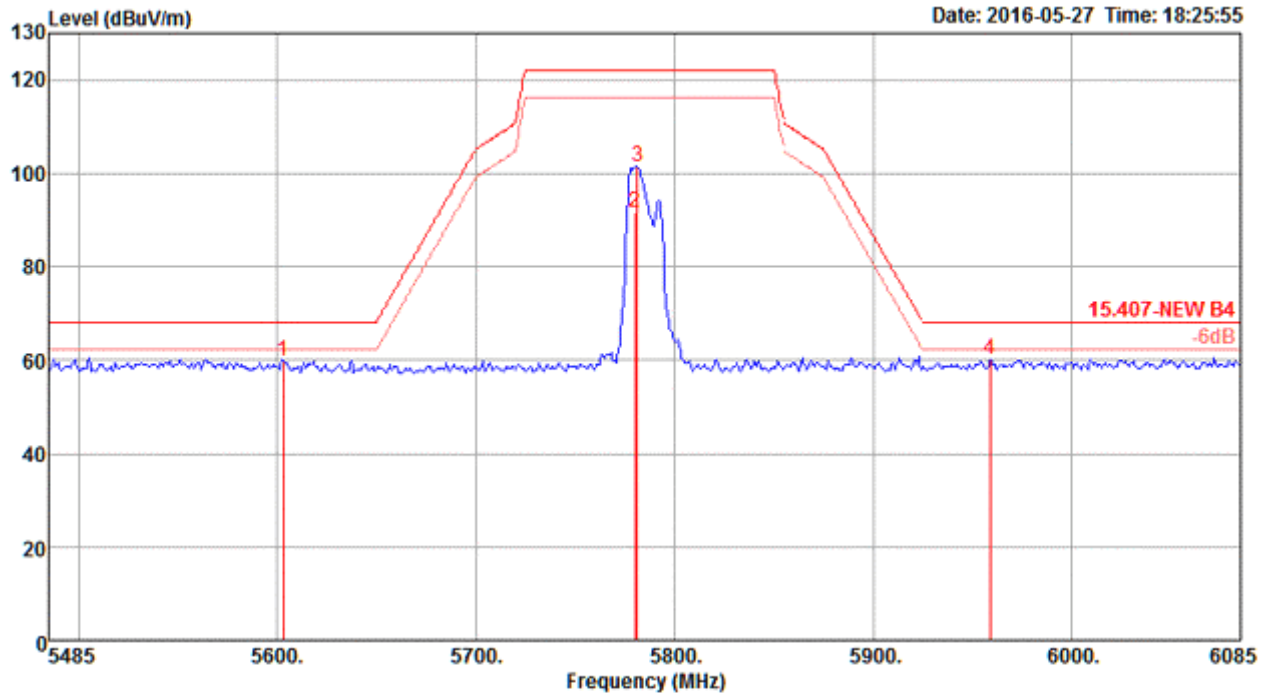
Channel 149



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5575.80	60.25	68.20	-7.95	52.74	7.94	34.05	34.48	200	11	Peak	VERTICAL
2	5748.60	110.05			102.16	7.86	34.55	34.52	200	11	Peak	VERTICAL
3	5748.60	100.13			92.24	7.86	34.55	34.52	200	11	Average	VERTICAL
4	5995.80	60.83	68.20	-7.37	52.39	7.71	35.30	34.57	200	11	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

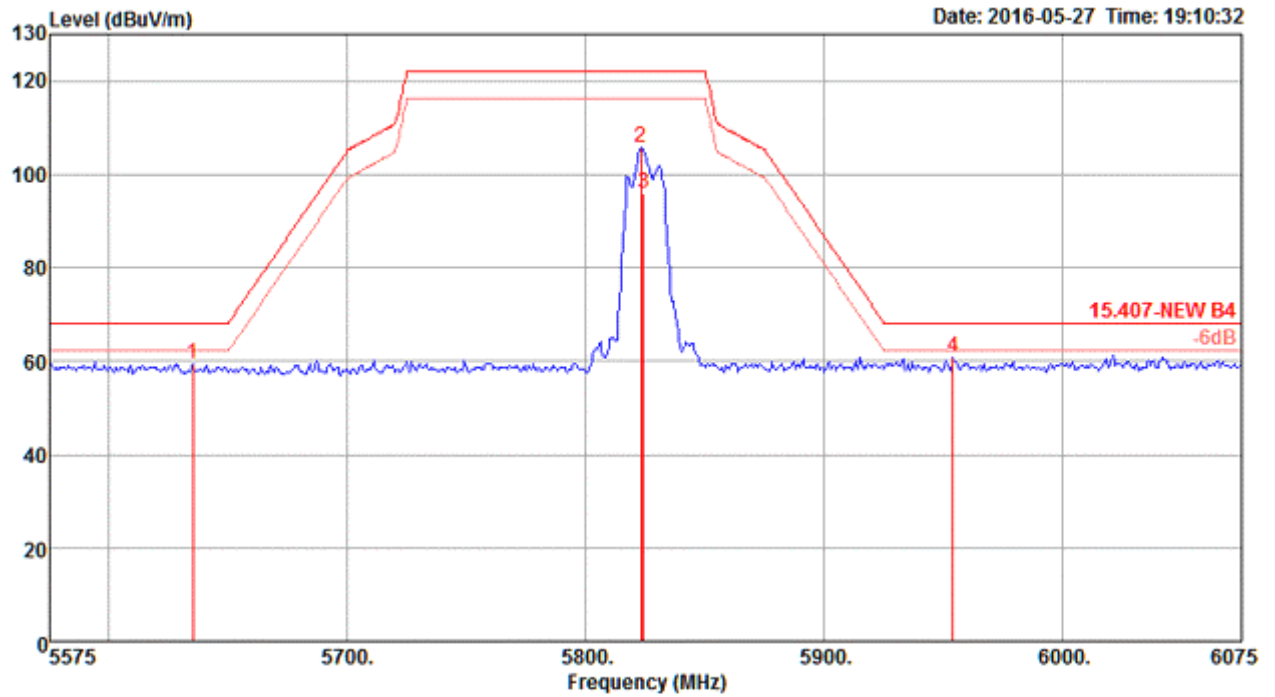
Channel 157



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5603.20	59.73	68.20	-8.47	52.17	7.95	34.10	34.49	136	21	Peak
2	5780.00	91.79			83.83	7.84	34.65	34.53	136	21	Average
3	5781.40	101.42			93.46	7.84	34.65	34.53	136	21	Peak
4	5959.00	60.23	68.20	-7.97	51.86	7.73	35.20	34.56	136	21	Peak

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

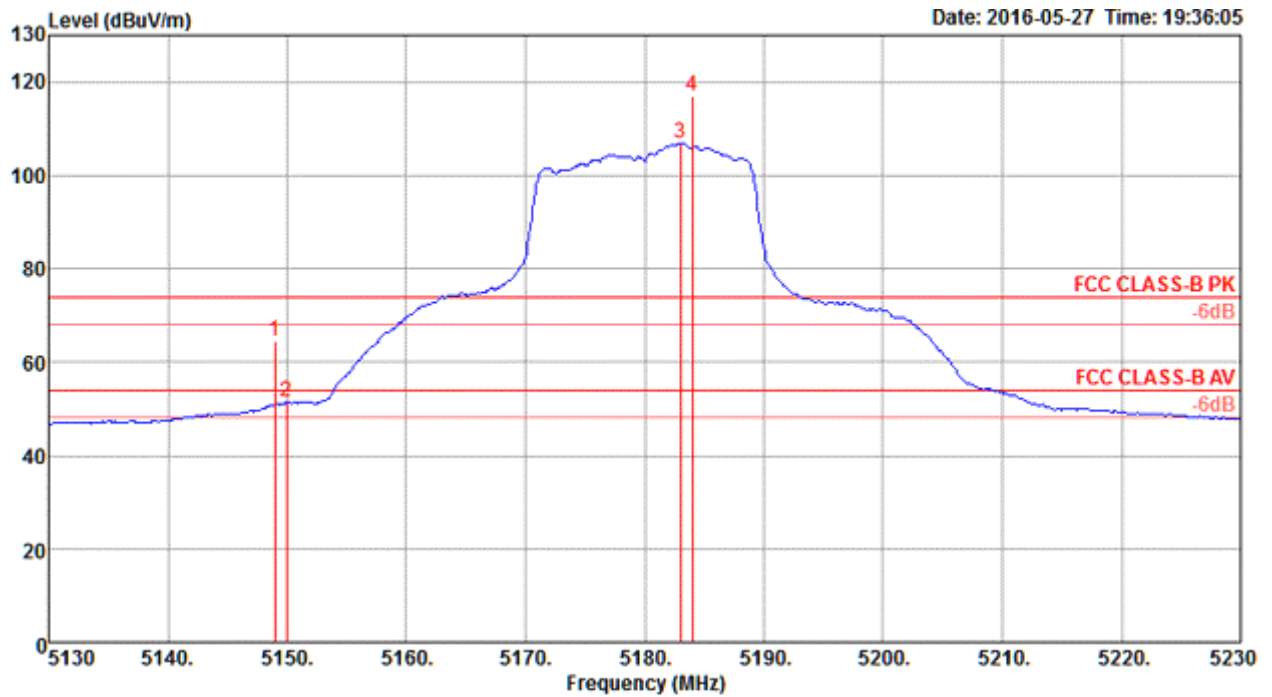


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5635.00	59.34	68.20	-8.86	51.71	7.93	34.20	34.50	128	207	Peak
2	5823.00	105.71			97.64	7.81	34.80	34.54	128	207	Peak
3	5824.00	96.10			88.03	7.81	34.80	34.54	128	207	Average
4	5954.00	60.67	68.20	-7.53	52.34	7.74	35.15	34.56	128	207	Peak

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3+ Chain 4

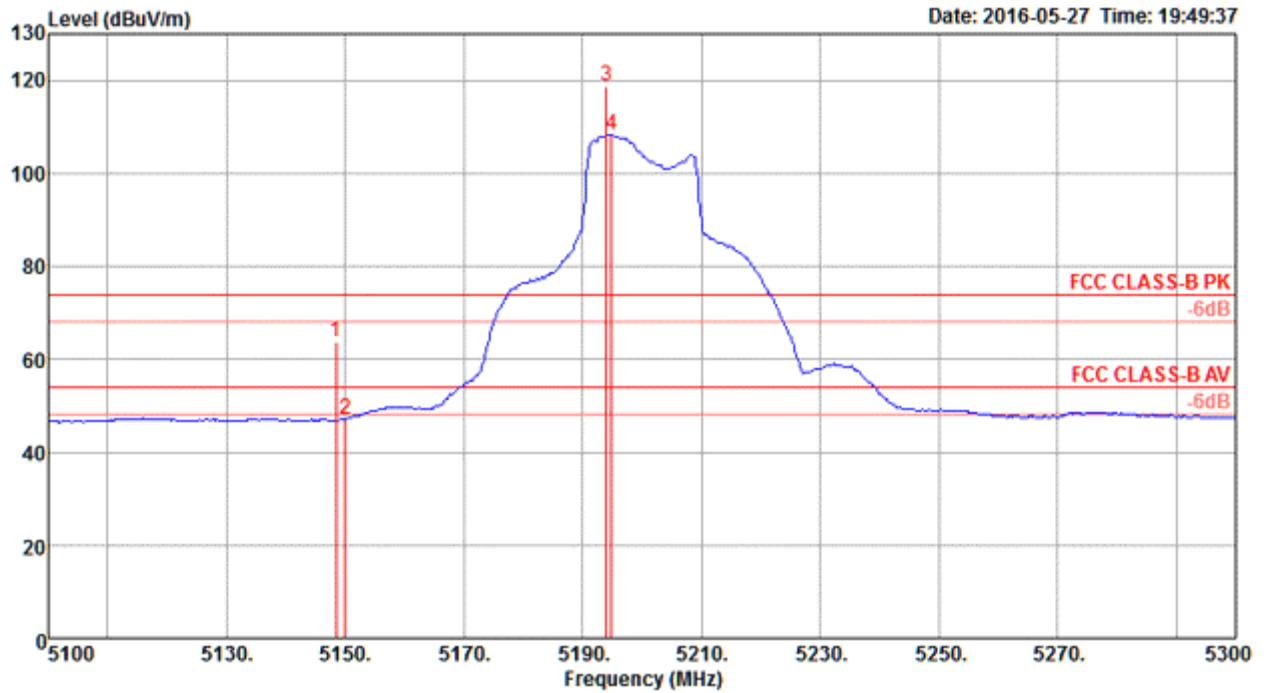
Channel 36



	Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5149.00	64.63	74.00	-9.37	57.89	7.90	33.31	34.47	184	6 Peak	VERTICAL
2	5150.00	51.50	54.00	-2.50	44.76	7.90	33.31	34.47	184	6 Average	VERTICAL
3	5183.00	106.78			99.95	7.95	33.35	34.47	184	6 Average	VERTICAL
4	5184.00	116.98			110.15	7.95	33.35	34.47	184	6 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

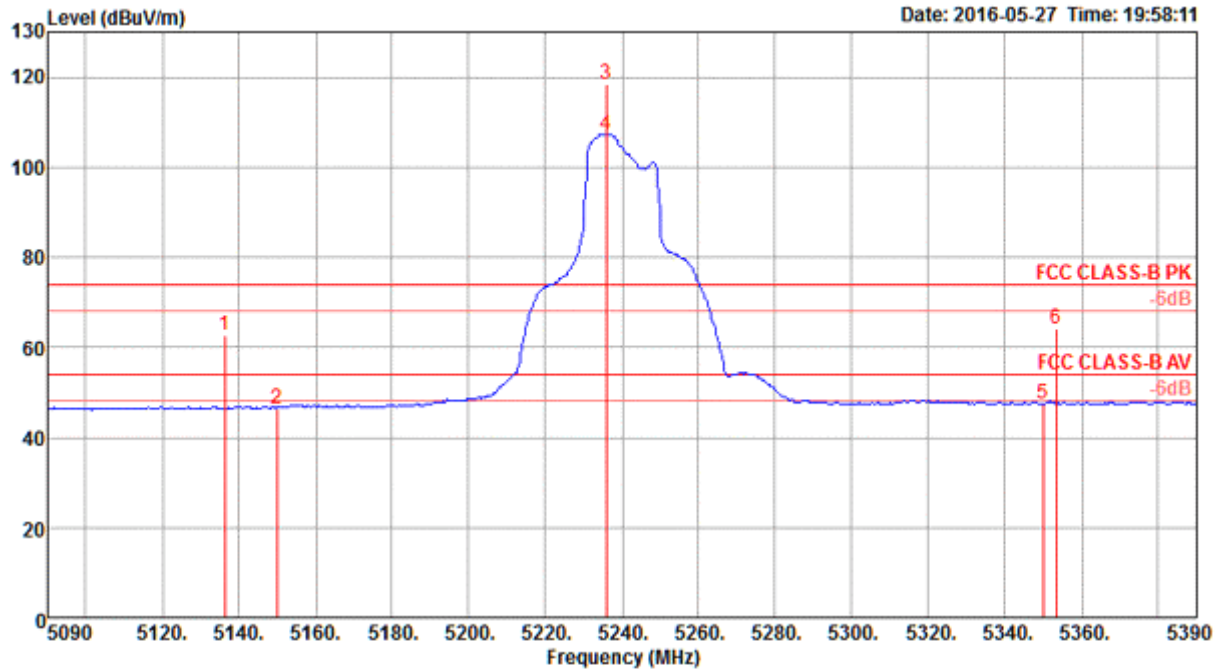
Channel 40



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.40	63.60	74.00	-10.40	56.86	7.90	33.31	34.47	189	360	Peak	HORIZONTAL
2	5150.00	46.95	54.00	-7.05	40.21	7.90	33.31	34.47	189	360	Average	HORIZONTAL
3	5194.00	118.66			111.77	7.98	33.38	34.47	189	360	Peak	HORIZONTAL
4	5194.80	108.40			101.51	7.98	33.38	34.47	189	360	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

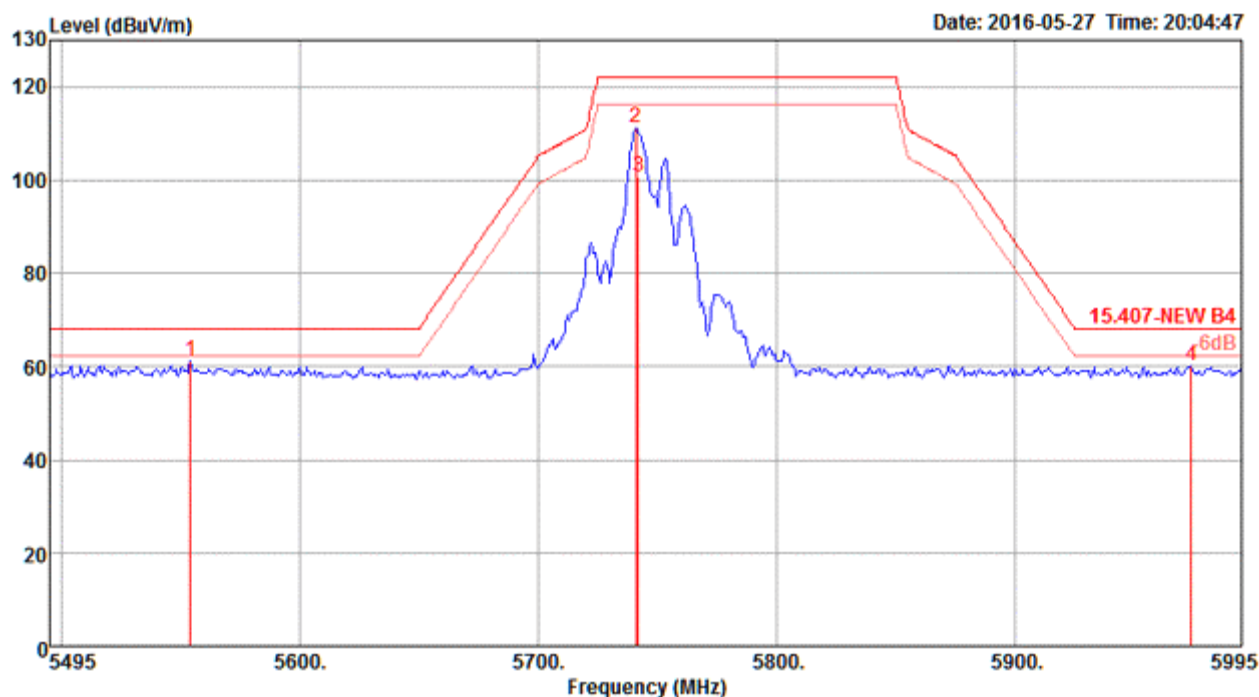


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5136.20	62.49	74.00	-11.51	55.79	7.88	33.29	34.47	188	360	Peak
2	5150.00	46.25	54.00	-7.75	39.51	7.90	33.31	34.47	188	360	Average
3	5235.80	118.25			111.33	7.95	33.44	34.47	188	360	Peak
4	5235.80	107.22			100.30	7.95	33.44	34.47	188	360	Average
5	5350.00	47.38	54.00	-6.62	40.37	7.89	33.59	34.47	188	360	Average
6	5353.40	63.95	74.00	-10.05	56.94	7.89	33.59	34.47	188	360	Peak

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4

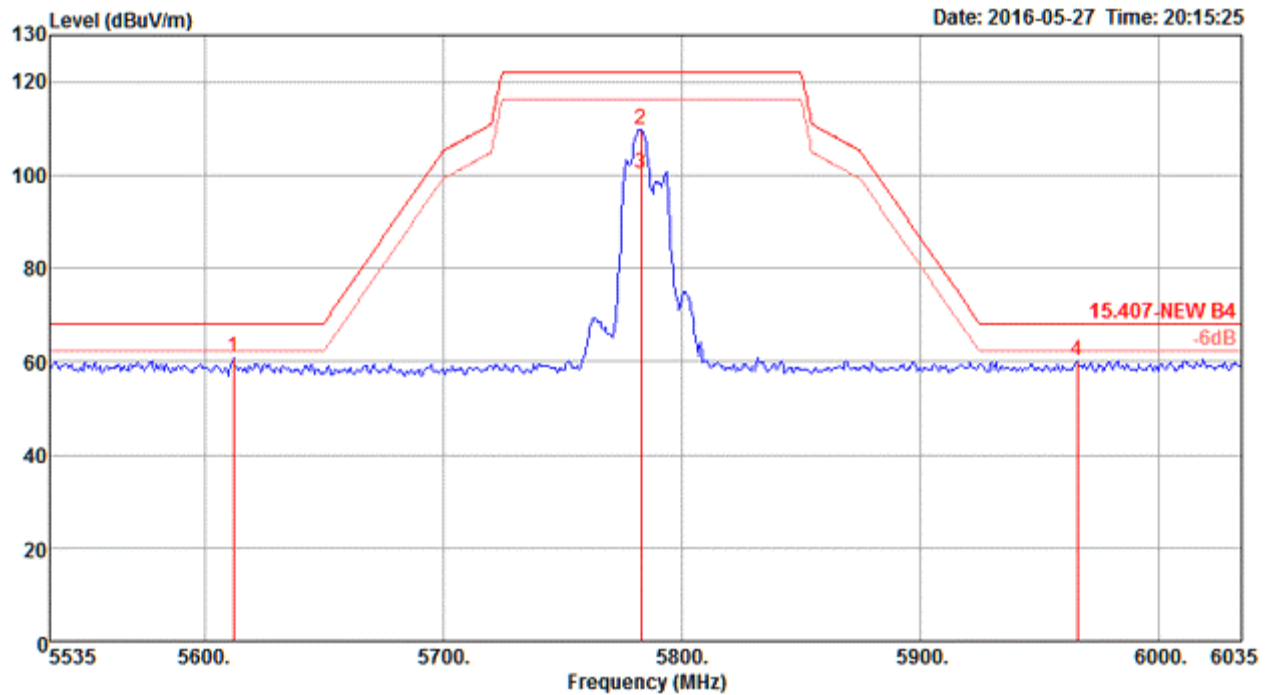
Channel 149



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5554.00	61.27	68.20	-6.93	53.87	7.93	33.95	34.48	147	196	Peak
2	5741.00	111.24			103.35	7.86	34.55	34.52	147	196	Peak
3	5742.00	100.52			92.63	7.86	34.55	34.52	147	196	Average
4	5974.00	59.98	68.20	-8.22	51.61	7.73	35.20	34.56	147	196	Peak

Item 2, 3 are the fundamental frequency at 5745 MHz.

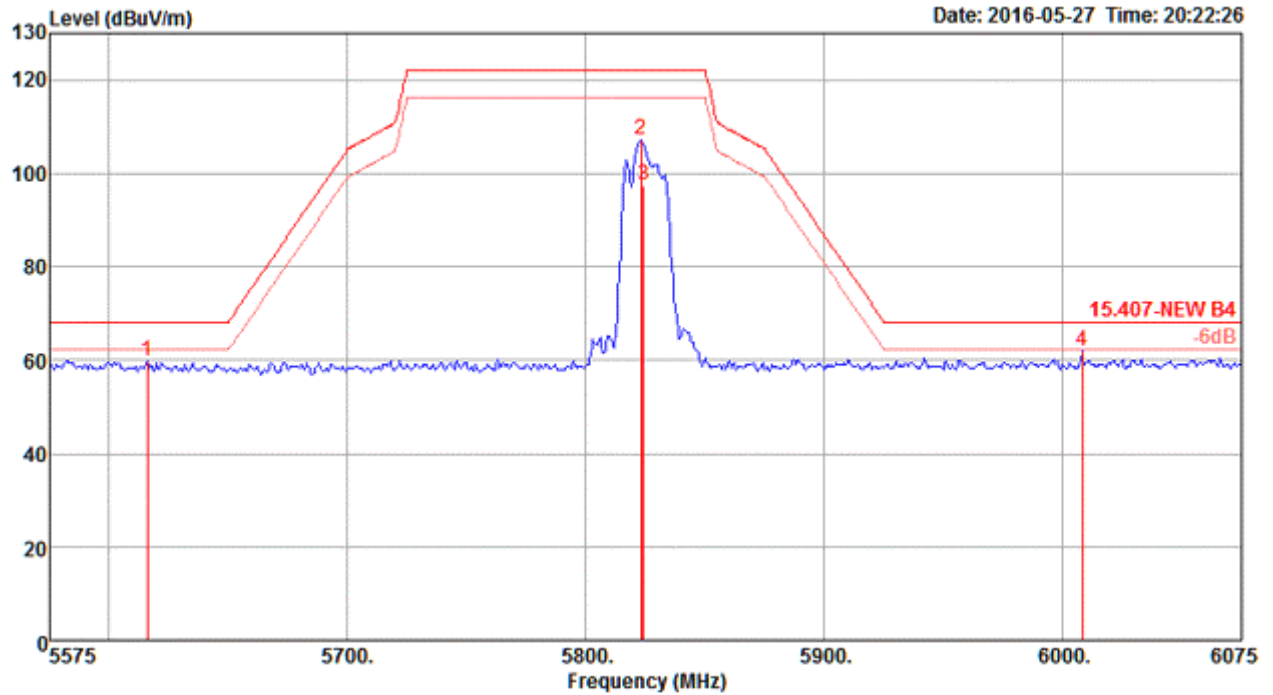
Channel 157



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5612.00	60.72	68.20	-7.48	53.12	7.94	34.15	34.49	101	239	Peak
2	5783.00	109.86			101.90	7.84	34.65	34.53	101	239	Peak
3	5783.00	100.45			92.49	7.84	34.65	34.53	101	239	Average
4	5966.00	60.23	68.20	-7.97	51.86	7.73	35.20	34.56	101	239	Peak

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

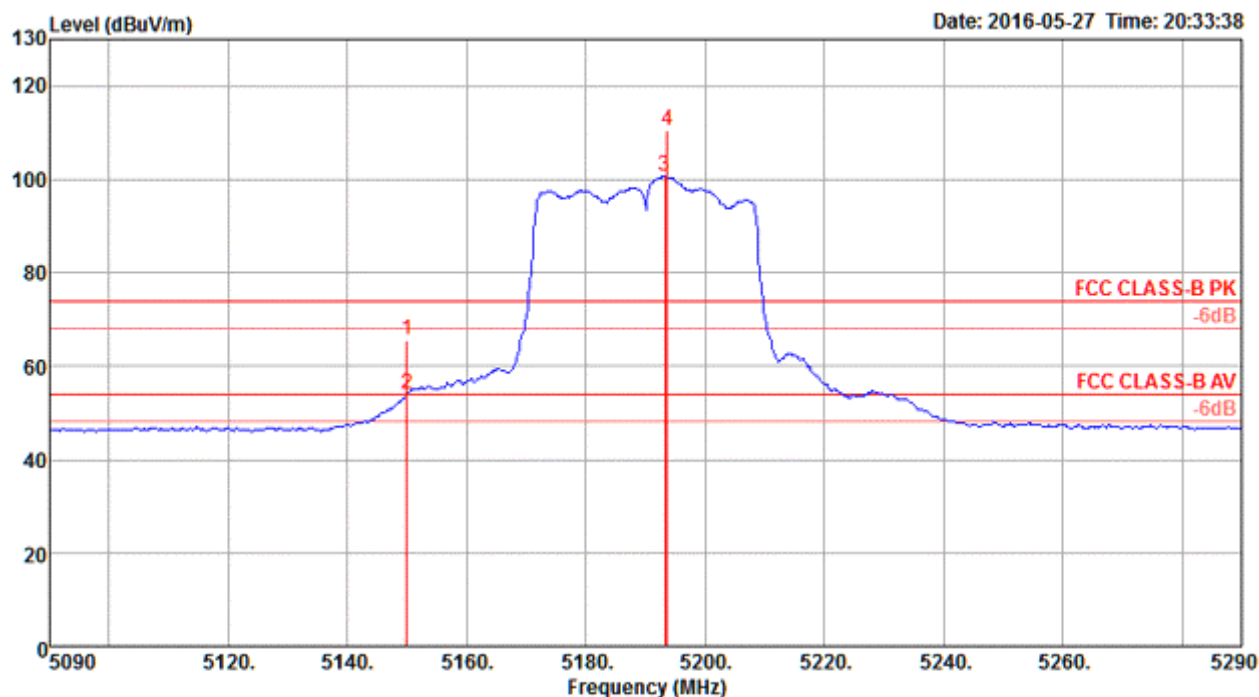


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5616.00	59.66	68.20	-8.54	52.07	7.94	34.15	34.50	156	242	Peak
2	5823.00	107.05			98.98	7.81	34.80	34.54	156	242	Peak
3	5824.00	97.48			89.41	7.81	34.80	34.54	156	242	Average
4	6008.00	62.00	68.20	-6.20	53.56	7.71	35.30	34.57	156	242	Peak

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3+ Chain 4

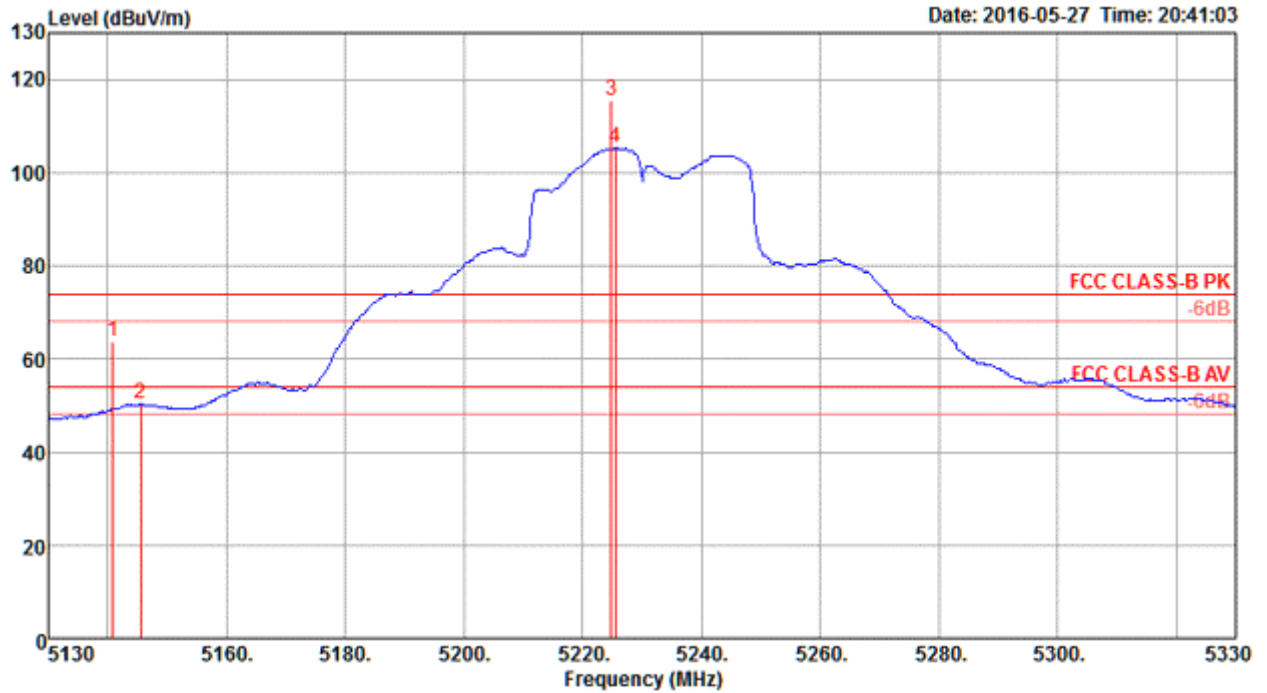
Channel 38



	Freq	Level	Limit	Over	Read	CableAntenna	Preampl	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5150.00	65.59	74.00	-8.41	58.85	7.90	33.31	34.47	181	5 Peak	VERTICAL
2	5150.00	53.85	54.00	-0.15	47.11	7.90	33.31	34.47	181	5 Average	VERTICAL
3	5193.20	100.68			93.79	7.98	33.38	34.47	181	5 Average	VERTICAL
4	5193.60	110.37			103.48	7.98	33.38	34.47	181	5 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

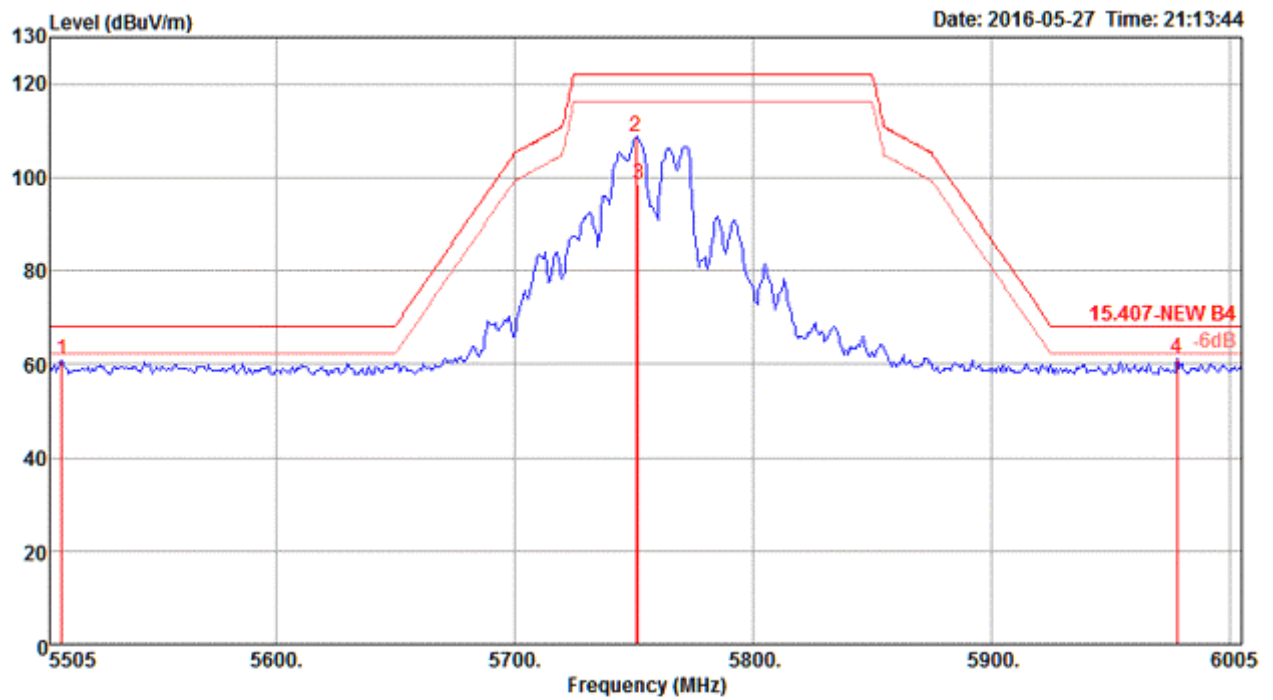


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5140.80	63.83	74.00	-10.17	57.13	7.88	33.29	34.47	188	359	Peak	HORIZONTAL
2	5145.60	50.26	54.00	-3.74	43.52	7.90	33.31	34.47	188	359	Average	HORIZONTAL
3	5224.80	115.48			108.57	7.96	33.42	34.47	188	359	Peak	HORIZONTAL
4	5225.60	105.28			98.37	7.96	33.42	34.47	188	359	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3+ Chain 4

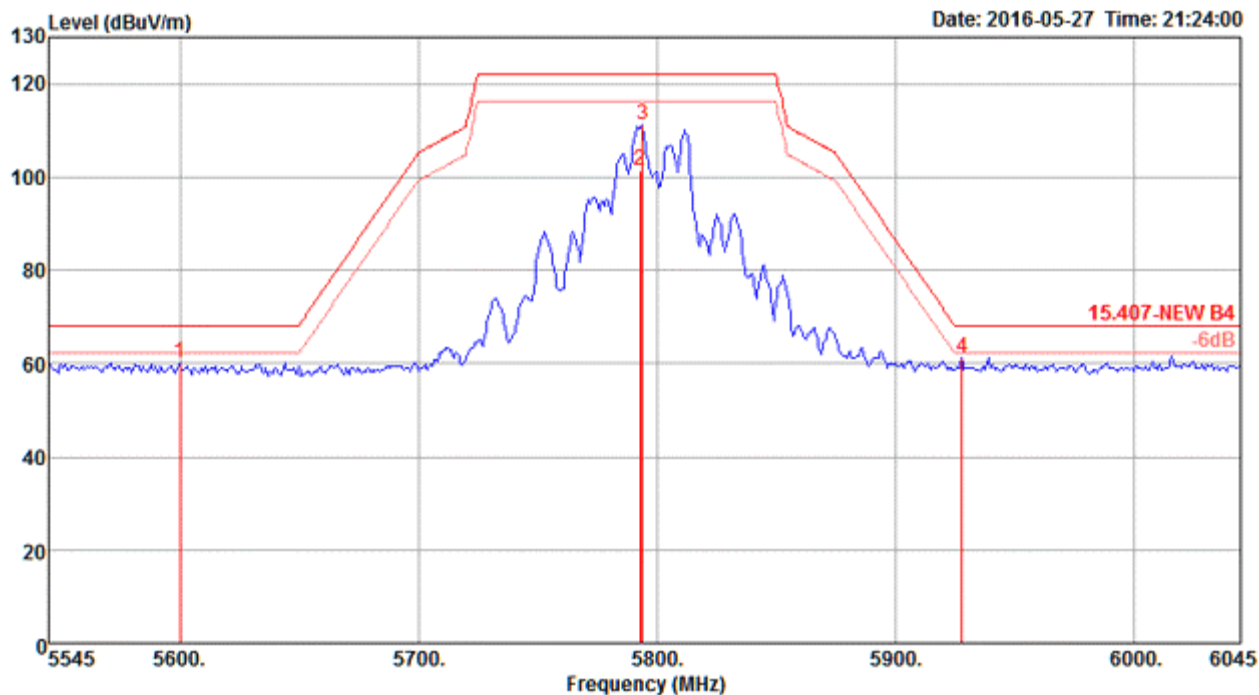
Channel 151



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5510.00	60.88	68.20	-7.32	53.64	7.91	33.80	34.47	101	240	Peak
2	5751.00	108.63			100.74	7.86	34.55	34.52	101	240	Peak
3	5752.00	98.34			90.45	7.86	34.55	34.52	101	240	Average
4	5978.00	61.06	68.20	-7.14	52.66	7.72	35.25	34.57	101	240	Peak

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

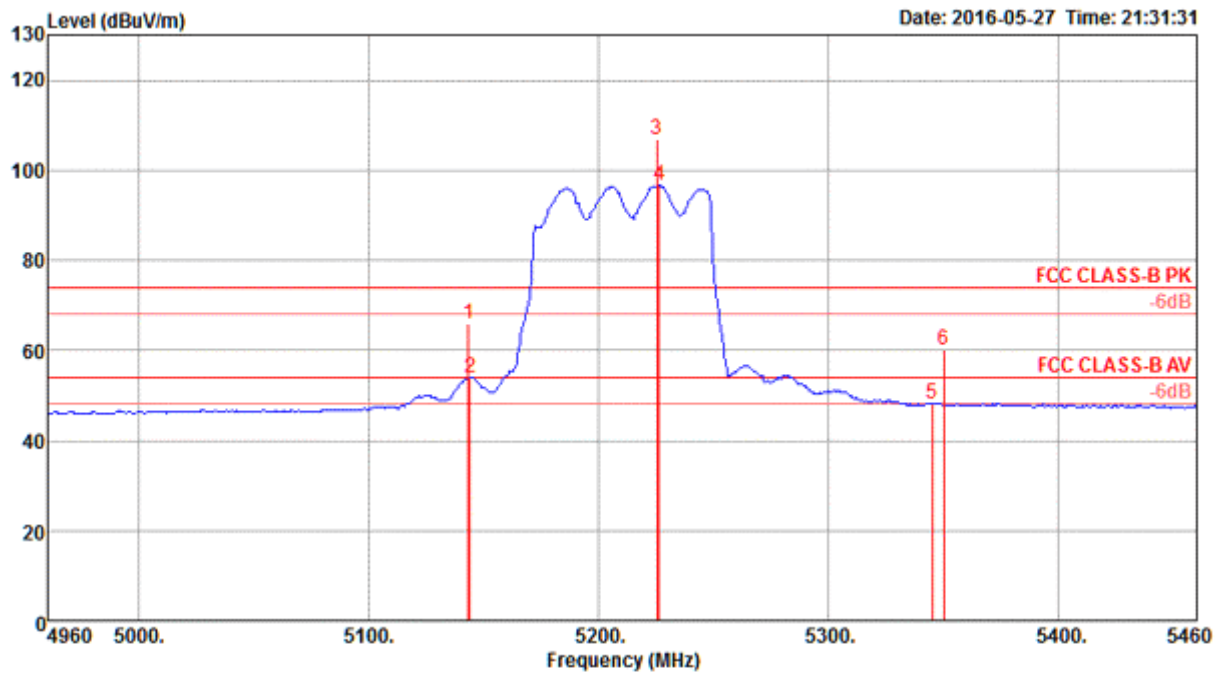


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5600.00	60.26	68.20	-7.94	52.70	7.95	34.10	34.49	155	196	Peak
2	5793.00	101.39			93.39	7.83	34.70	34.53	155	196	Average
3	5794.00	111.09			103.09	7.83	34.70	34.53	155	196	Peak
4	5928.00	61.23	68.20	-6.97	52.94	7.75	35.10	34.56	155	196	Peak

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3+ Chain 4

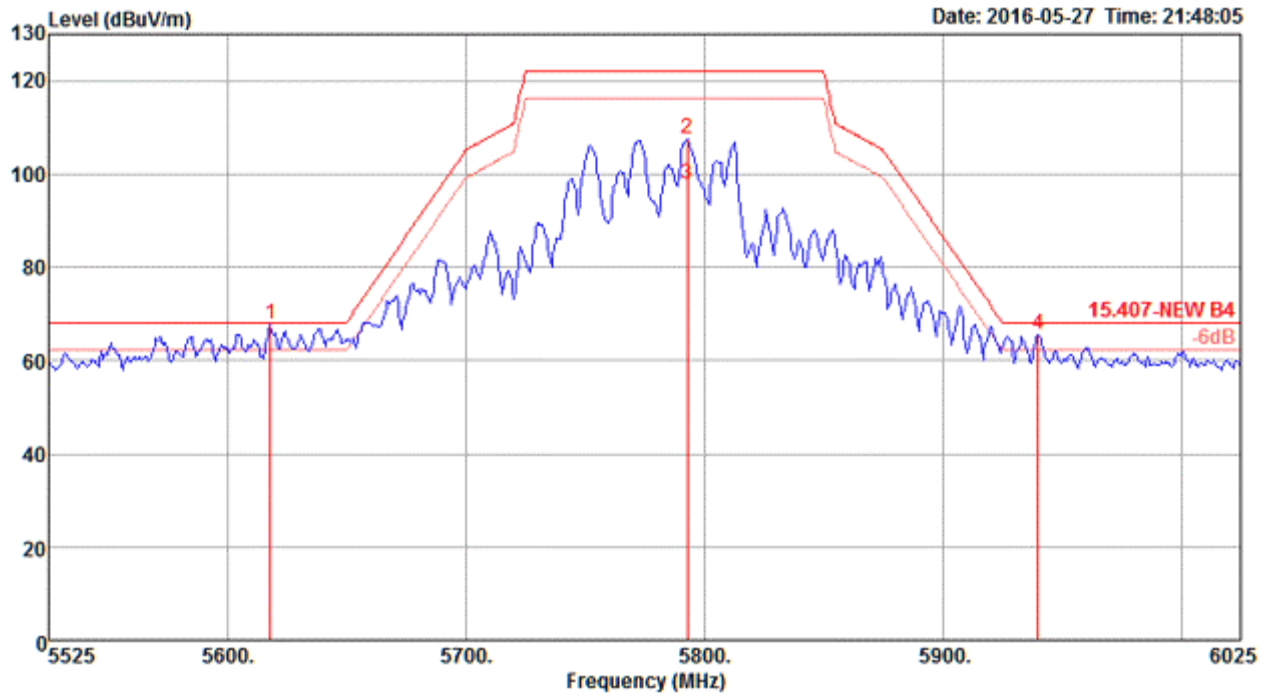
Channel 42



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5143.00	65.77	74.00	-8.23	59.03	7.90	33.31	34.47	189	360	Peak	HORIZONTAL
2	5144.00	53.85	54.00	-0.15	47.11	7.90	33.31	34.47	189	360	Average	HORIZONTAL
3	5225.00	106.81			99.90	7.96	33.42	34.47	189	360	Peak	HORIZONTAL
4	5226.00	96.75			89.84	7.96	33.42	34.47	189	360	Average	HORIZONTAL
5	5345.00	48.20	54.00	-5.80	41.19	7.89	33.59	34.47	189	360	Average	HORIZONTAL
6	5350.00	60.23	74.00	-13.77	53.22	7.89	33.59	34.47	189	360	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5618.00	67.71	68.20	-0.49	60.12	7.94	34.15	34.50	151	196	Peak
2	5793.00	107.63			99.63	7.83	34.70	34.53	151	196	Peak
3	5793.00	97.76			89.76	7.83	34.70	34.53	151	196	Average
4	5940.00	65.55	68.20	-2.65	57.26	7.75	35.10	34.56	151	196	Peak

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

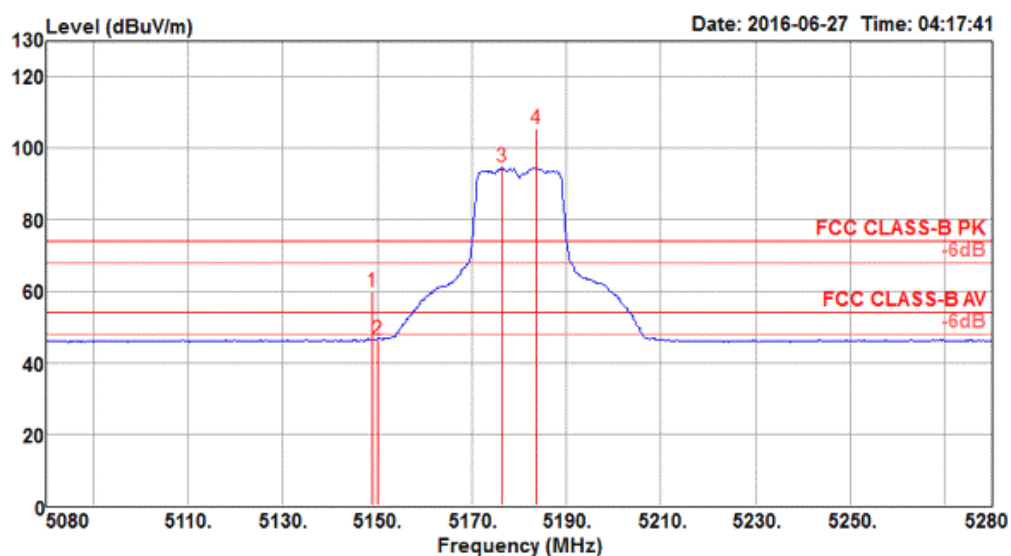
Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

<For Beamforming Mode>

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3+ Chain 4

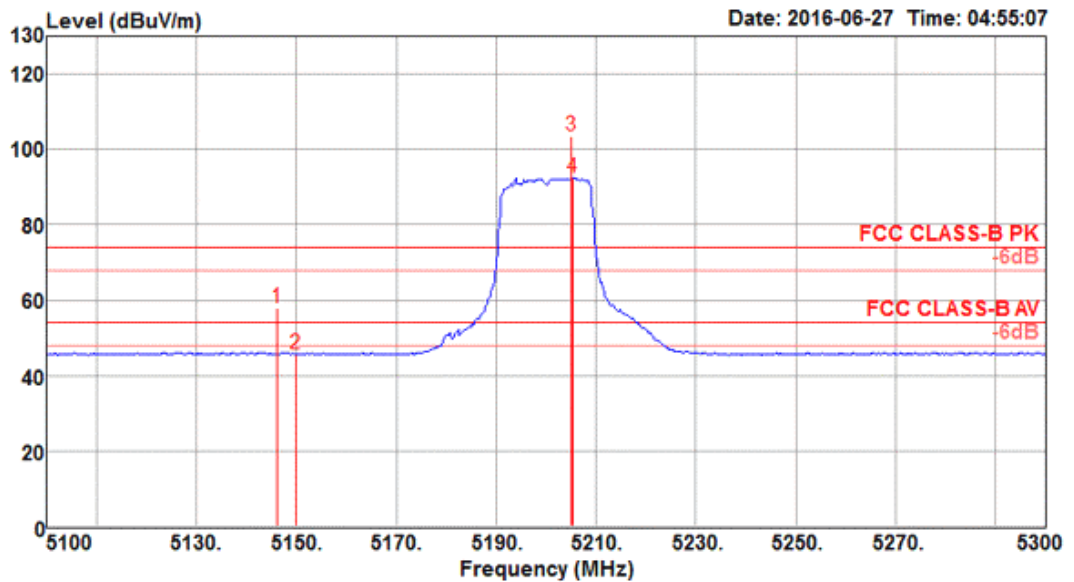
Channel 36



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor			
			dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5148.91	59.69	74.00	-14.31	52.27	7.48	34.85	34.91	150	1 Peak	HORIZONTAL
2	5150.00	46.26	54.00	-7.74	38.84	7.48	34.85	34.91	150	1 Average	HORIZONTAL
3	5176.47	94.55			87.10	7.48	34.88	34.91	150	1 Average	HORIZONTAL
4	5183.53	105.45			98.00	7.48	34.88	34.91	150	1 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

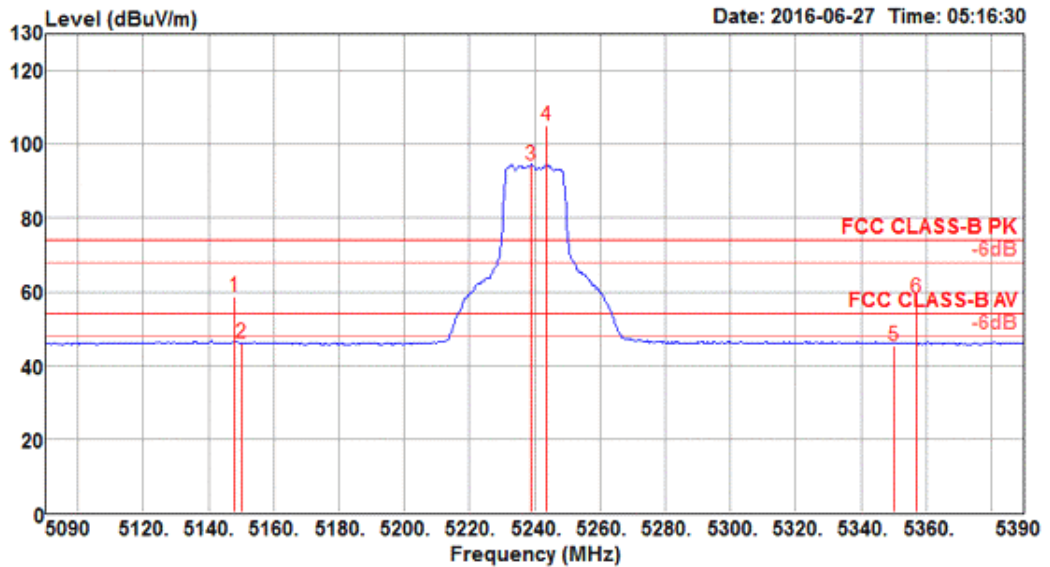
Channel 40



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5146.15	57.99	74.00	-16.01	50.57	7.48	34.85	34.91	223	330	Peak
2	5150.00	45.81	54.00	-8.19	38.39	7.48	34.85	34.91	223	330	Average
3	5205.13	103.64			96.15	7.49	34.91	34.91	223	330	Peak
4	5205.45	92.39			84.90	7.49	34.91	34.91	223	330	Average

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

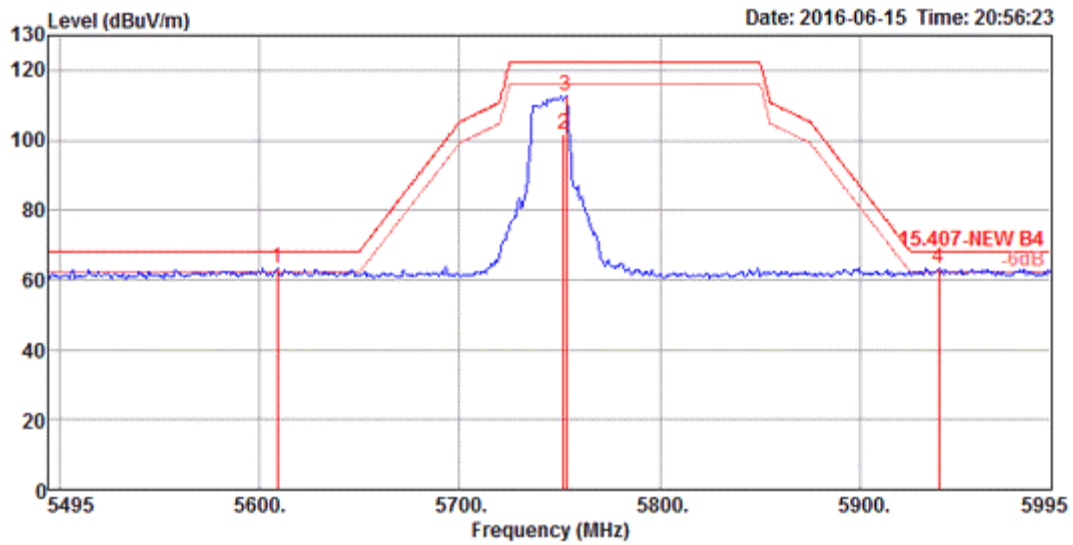


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	5148.08	58.55	74.00	-15.45	51.13	7.48	34.85	34.91	210	358 Peak	HORIZONTAL
2	5150.00	46.17	54.00	-7.83	38.75	7.48	34.85	34.91	210	358 Average	HORIZONTAL
3	5239.04	94.36			86.83	7.50	34.94	34.91	210	358 Average	HORIZONTAL
4	5243.85	105.26			97.73	7.50	34.94	34.91	210	358 Peak	HORIZONTAL
5	5350.00	45.46	54.00	-8.54	37.76	7.56	35.05	34.91	210	358 Average	HORIZONTAL
6	5357.21	58.47	74.00	-15.53	50.76	7.56	35.06	34.91	210	358 Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3+ Chain 4

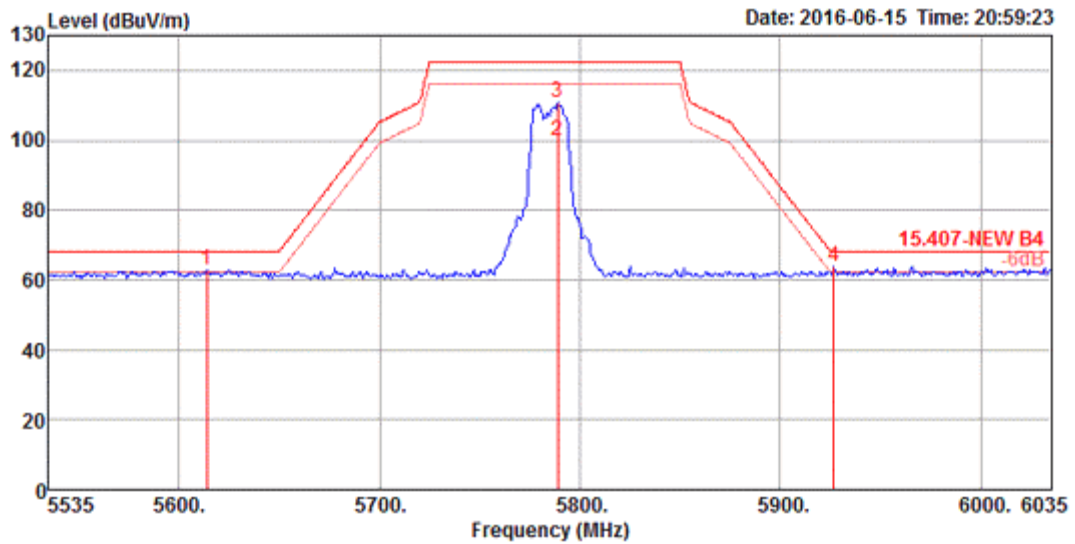
Channel 149



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5609.00	63.52	68.20	-4.68	53.81	8.46	34.13	32.88	214	171 Peak	VERTICAL
2	5752.00	101.72			91.70	8.42	34.50	32.90	214	171 Average	VERTICAL
3	5753.00	112.81			102.79	8.42	34.50	32.90	214	171 Peak	VERTICAL
4	5939.00	63.35	68.20	-4.85	52.88	8.37	35.01	32.91	214	171 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5745 MHz.

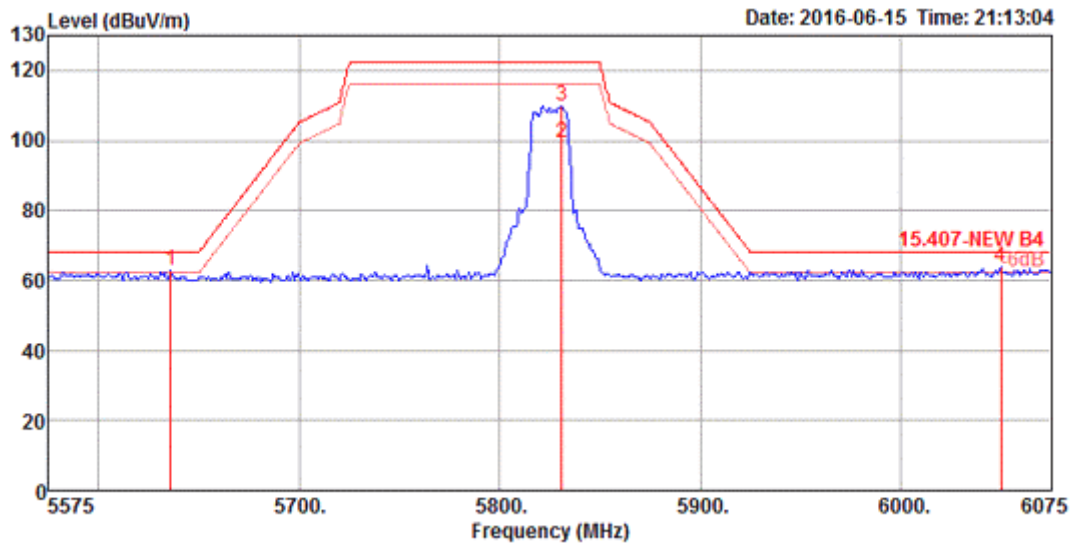
Channel 157



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5614.00	62.68	68.20	-5.52	52.97	8.46	34.13	32.88	219	174	Peak	VERTICAL
2	5789.00	99.73			89.59	8.40	34.64	32.90	219	174	Average	VERTICAL
3	5789.00	110.73			100.59	8.40	34.64	32.90	219	174	Peak	VERTICAL
4	5927.00	64.00	68.20	-4.20	53.53	8.37	35.01	32.91	219	174	Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5785 MHz.

Channel 165

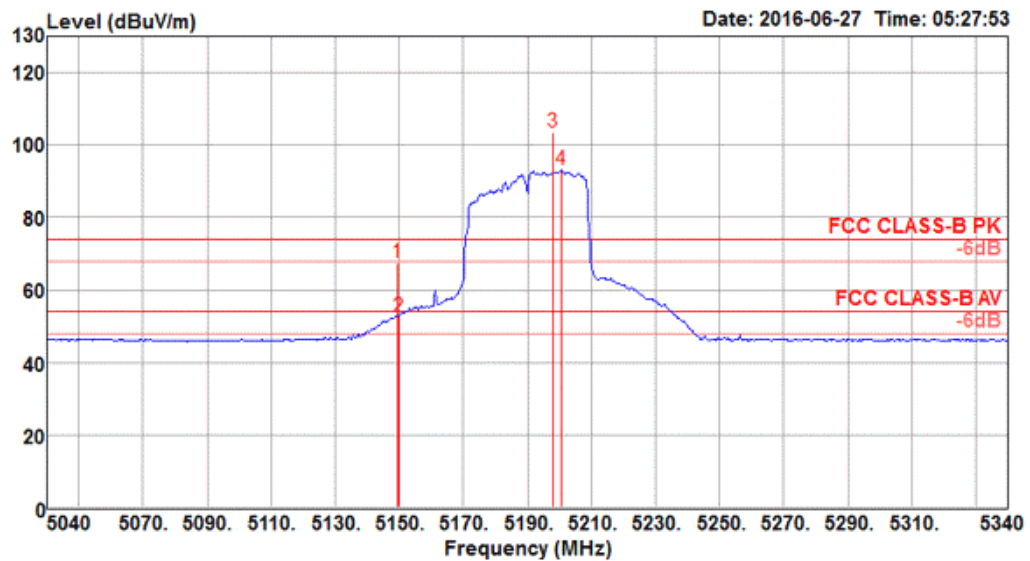


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5636.00	62.61	68.20	-5.59	52.86	8.46	34.17	32.88	208	168 Peak	HORIZONTAL
2	5831.00	99.20			88.98	8.39	34.73	32.90	208	168 Average	HORIZONTAL
3	5831.00	110.04			99.82	8.39	34.73	32.90	208	168 Peak	HORIZONTAL
4	6050.00	63.67	68.20	-4.53	52.81	8.53	35.26	32.93	208	168 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5825 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3+ Chain 4

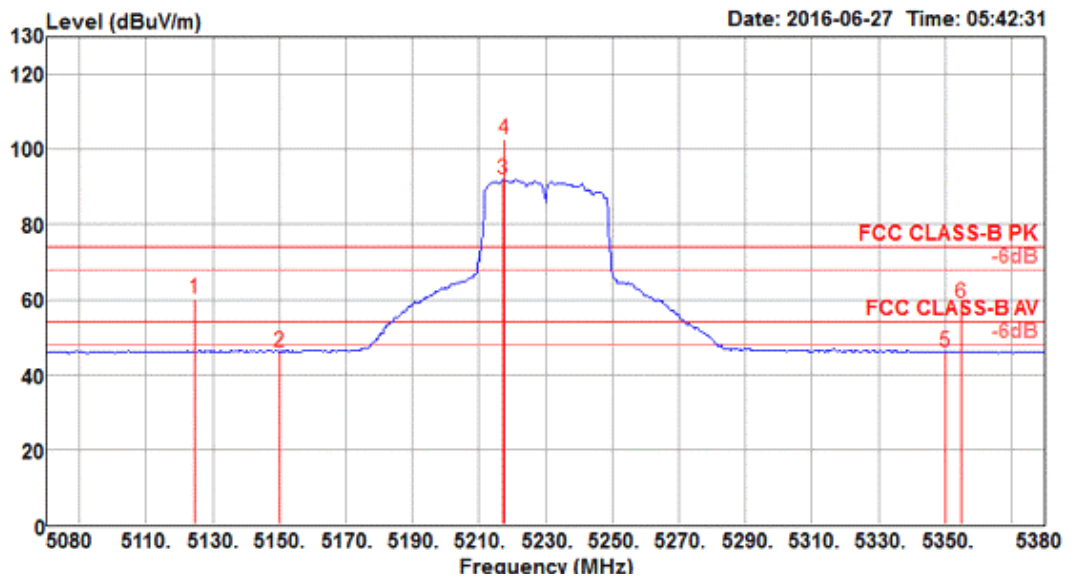
Channel 38



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5149.62	67.52	74.00	-6.48	60.10	7.48	34.85	34.91	178	3 Peak	HORIZONTAL
2	5150.00	52.64	54.00	-1.36	45.22	7.48	34.85	34.91	178	3 Average	HORIZONTAL
3	5198.17	103.72			96.25	7.48	34.90	34.91	178	3 Peak	HORIZONTAL
4	5200.58	93.23			85.76	7.48	34.90	34.91	178	3 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

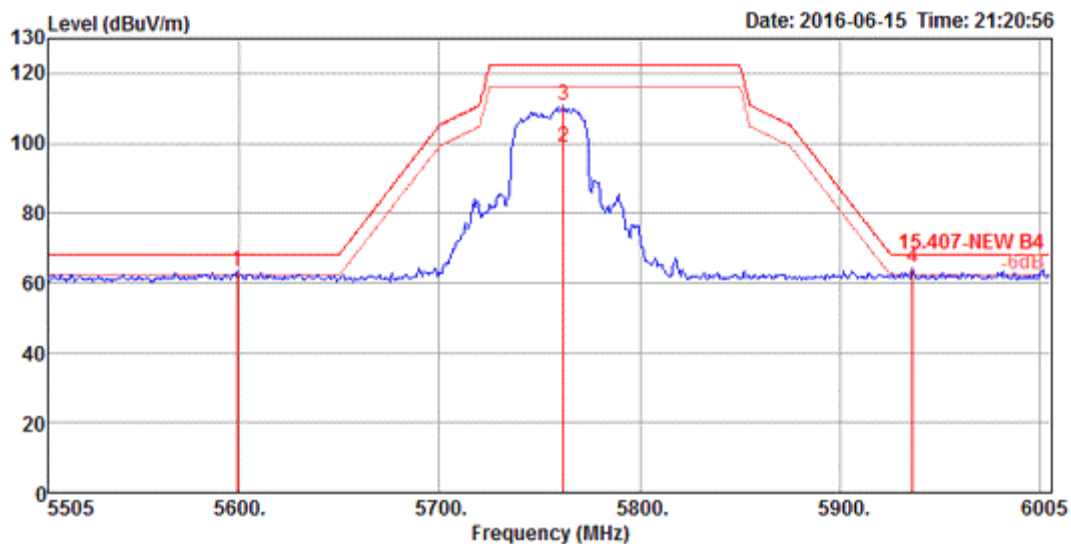


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5124.71	60.23	74.00	-13.77	52.83	7.48	34.82	34.90	236	360	Peak
2	5150.00	46.16	54.00	-7.84	38.74	7.48	34.85	34.91	236	360	Average
3	5217.02	92.04			84.52	7.50	34.93	34.91	236	360	Average
4	5217.50	102.67			95.15	7.50	34.93	34.91	236	360	Peak
5	5350.00	46.01	54.00	-7.99	38.31	7.56	35.05	34.91	236	360	Average
6	5354.81	58.98	74.00	-15.02	51.27	7.56	35.06	34.91	236	360	Peak

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3+ Chain 4

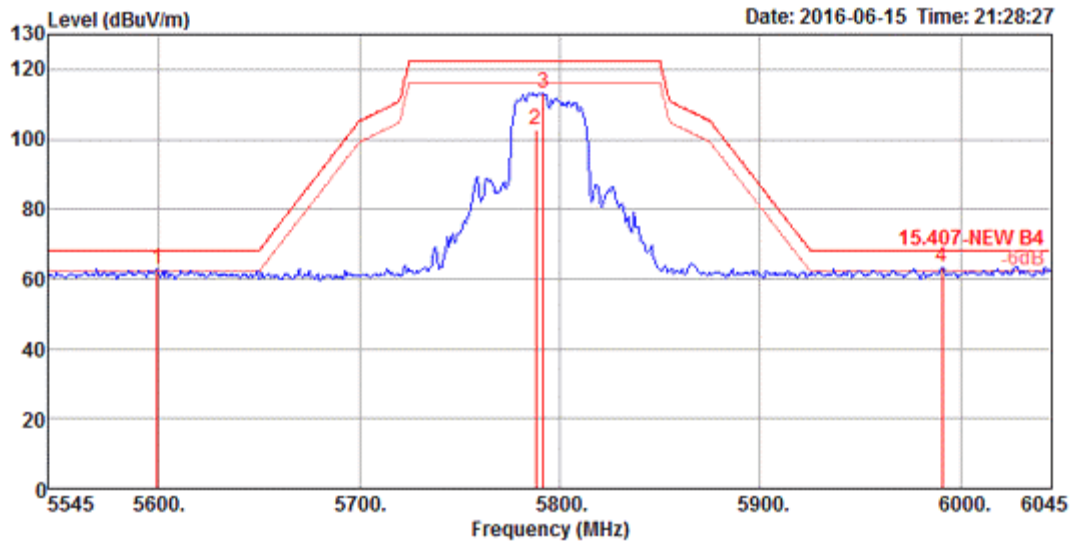
Channel 151



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5599.00	63.25	68.20	-4.95	53.58	8.47	34.08	32.88	213	169 Peak	VERTICAL
2	5762.00	99.02			88.96	8.41	34.55	32.90	213	169 Average	VERTICAL
3	5762.00	110.76			100.70	8.41	34.55	32.90	213	169 Peak	VERTICAL
4	5936.00	64.28	68.20	-3.92	53.81	8.37	35.01	32.91	213	169 Peak	VERTICAL

Item 2, 3 are the fundamental frequency at 5755 MHz.

Channel 159

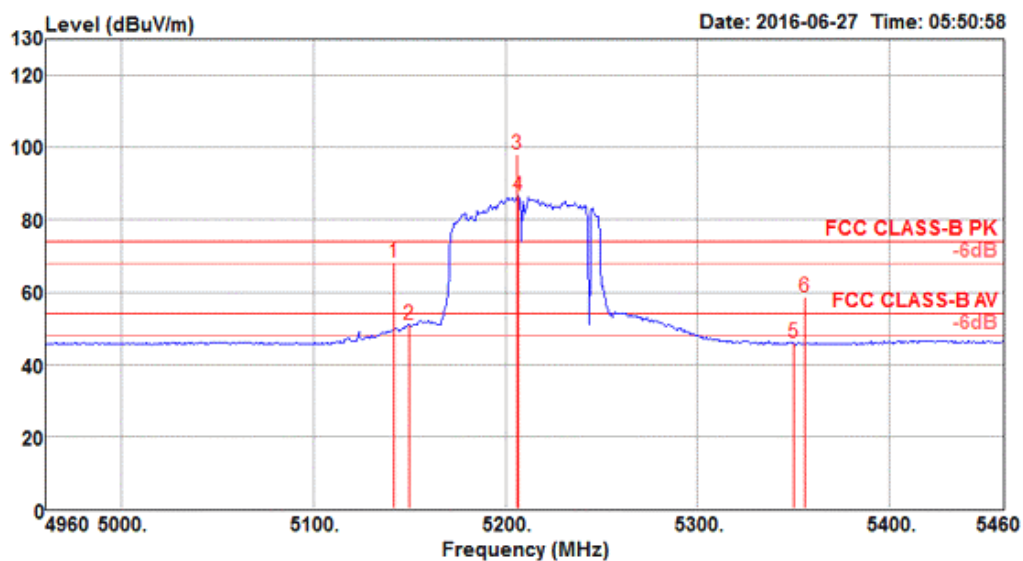


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5599.00	62.73	68.20	-5.47	53.06	8.47	34.08	32.88	211	198	Peak
2	5788.00	102.59			92.49	8.41	34.59	32.90	211	198	Average
3	5792.00	113.35			103.21	8.40	34.64	32.90	211	198	Peak
4	5991.00	63.42	68.20	-4.78	52.83	8.36	35.15	32.92	211	198	Peak

Item 2, 3 are the fundamental frequency at 5795 MHz.

Temperature	22°C	Humidity	54%
Test Engineer	Gino Huang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3+ Chain 4

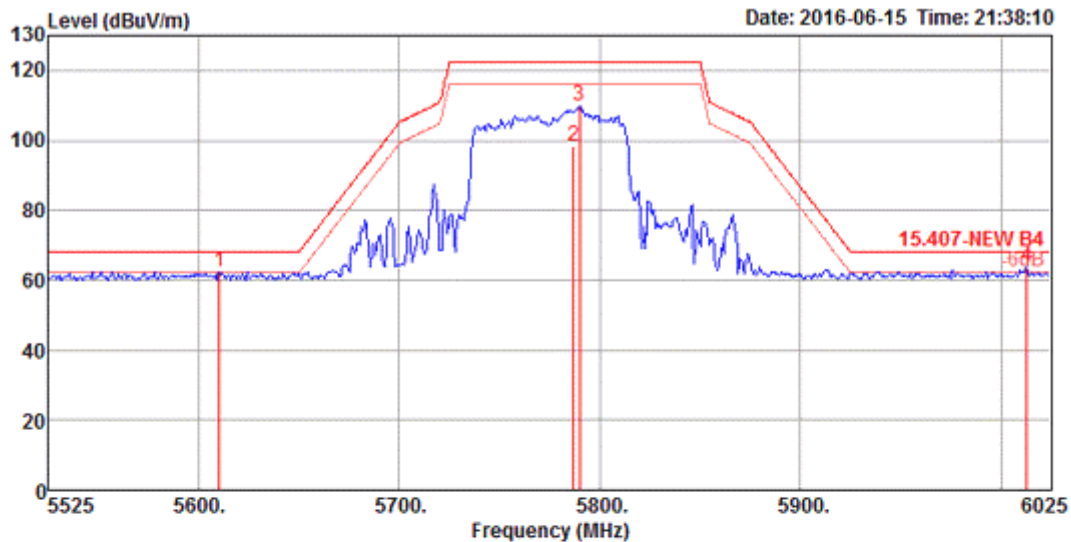
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5141.89	68.41	74.00	-5.59	60.99	7.48	34.85	34.91	220	360	Peak	HORIZONTAL
2	5150.00	50.98	54.00	-3.02	43.56	7.48	34.85	34.91	220	360	Average	HORIZONTAL
3	5205.99	98.27			90.78	7.49	34.91	34.91	220	360	Peak	HORIZONTAL
4	5206.80	86.75			79.26	7.49	34.91	34.91	220	360	Average	HORIZONTAL
5	5350.00	45.88	54.00	-8.12	38.18	7.56	35.05	34.91	220	360	Average	HORIZONTAL
6	5356.41	58.55	74.00	-15.45	50.84	7.56	35.06	34.91	220	360	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5610.00	62.58	68.20	-5.62	52.87	8.46	34.13	32.88	219	198 Peak	HORIZONTAL
2	5787.00	98.56			88.46	8.41	34.59	32.90	219	198 Average	HORIZONTAL
3	5790.00	109.91			99.77	8.40	34.64	32.90	219	198 Peak	HORIZONTAL
4	6013.00	63.98	68.20	-4.22	53.26	8.42	35.22	32.92	219	198 Peak	HORIZONTAL

Item 2, 3 are the fundamental frequency at 5775 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

4.8. Frequency Stability Measurement

4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

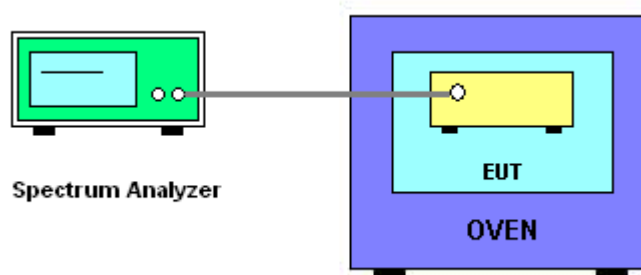
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is -40°C ~ 55°C .

4.8.4. Test Setup Layout





4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Temperature	25°C	Humidity	60%
Test Engineer	Akina Chiu	Test Date	Jun. 15, 2016~Jul. 27, 2016

Mode: 20 MHz / Chain 1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9922	5199.9921	5199.9917	5199.9913
110.00	5199.9915	5199.9909	5199.9901	5199.9895
93.50	5199.9914	5199.9904	5199.9897	5199.9896
Max. Deviation (MHz)	0.0086	0.0096	0.0103	0.0105
Max. Deviation (ppm)	1.65	1.84	1.98	2.02
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5199.9865	5199.9855	5199.9852	5199.9846
-30	5199.9877	5199.9876	5199.9871	5199.9868
-20	5199.9883	5199.9877	5199.9867	5199.9858
-10	5199.9899	5199.9896	5199.9892	5199.9883
0	5199.9912	5199.9905	5199.9900	5199.9890
10	5199.9915	5199.9907	5199.9902	5199.9898
20	5199.9935	5199.9934	5199.9928	5199.9921
30	5199.9937	5199.9934	5199.9927	5199.9920
40	5199.9941	5199.9940	5199.9934	5199.9924
50	5199.9959	5199.9952	5199.9948	5199.9942
55	5199.9974	5199.9965	5199.9955	5199.9945
Max. Deviation (MHz)	0.0123	0.0124	0.0133	0.0142
Max. Deviation (ppm)	2.36	2.38	2.55	2.73
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9921	5784.9915	5784.9913	5784.9912
110.00	5784.9915	5784.9905	5784.9895	5784.9890
93.50	5784.9909	5784.9901	5784.9892	5784.9882
Max. Deviation (MHz)	0.0091	0.0099	0.0108	0.0118
Max. Deviation (ppm)	1.57	1.71	1.86	2.04
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5784.9880	5784.9872	5784.9862	5784.9861
-30	5784.9891	5784.9886	5784.9881	5784.9873
-20	5784.9895	5784.9894	5784.9891	5784.9889
-10	5784.9906	5784.9897	5784.9896	5784.9892
0	5784.9912	5784.9906	5784.9898	5784.9888
10	5784.9915	5784.9908	5784.9907	5784.9899
20	5784.9935	5784.9931	5784.9925	5784.9918
30	5784.9941	5784.9939	5784.9929	5784.9923
40	5784.9957	5784.9948	5784.9944	5784.9940
50	5784.9965	5784.9964	5784.9957	5784.9949
55	5784.9967	5784.9957	5784.9950	5784.9945
Max. Deviation (MHz)	0.0109	0.0114	0.0119	0.0127
Max. Deviation (ppm)	1.88	1.97	2.05	2.19
Result	Complies			

Mode: 40 MHz / Chain 1
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9919	5189.9909	5189.9907	5189.9906
110.00	5189.9915	5189.9912	5189.9909	5189.9903
93.50	5189.9906	5189.9904	5189.9895	5189.9892
Max. Deviation (MHz)	0.0094	0.0096	0.0105	0.0108
Max. Deviation (ppm)	1.81	1.85	2.02	2.08
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5189.9866	5189.9857	5189.9854	5189.9849
-30	5189.9881	5189.9878	5189.9873	5189.9864
-20	5189.9882	5189.9872	5189.9866	5189.9864
-10	5189.9899	5189.9896	5189.9894	5189.9886
0	5189.9908	5189.9904	5189.9897	5189.9892
10	5189.9915	5189.9908	5189.9904	5189.9900
20	5189.9935	5189.9928	5189.9925	5189.9923
30	5189.9952	5189.9942	5189.9934	5189.9931
40	5189.9970	5189.9969	5189.9962	5189.9959
50	5189.9949	5189.9944	5189.9940	5189.9933
55	5189.9964	5189.9954	5189.9947	5189.9938
Max. Deviation (MHz)	0.0119	0.0128	0.0134	0.0136
Max. Deviation (ppm)	2.29	2.46	2.58	2.62
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9920	5754.9919	5754.9917	5754.9907
110.00	5754.9915	5754.9909	5754.9899	5754.9893
93.50	5754.9906	5754.9901	5754.9898	5754.9891
Max. Deviation (MHz)	0.0094	0.0099	0.0102	0.0109
Max. Deviation (ppm)	1.63	1.72	1.77	1.89
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5754.9868	5754.9858	5754.9849	5754.9840
-30	5754.9869	5754.9862	5754.9860	5754.9851
-20	5754.9871	5754.9867	5754.9859	5754.9850
-10	5754.9889	5754.9882	5754.9878	5754.9874
0	5754.9905	5754.9903	5754.9893	5754.9889
10	5754.9915	5754.9911	5754.9910	5754.9904
20	5754.9935	5754.9927	5754.9926	5754.9918
30	5754.9946	5754.9939	5754.9936	5754.9931
40	5754.9957	5754.9949	5754.9948	5754.9946
50	5754.9957	5754.9955	5754.9954	5754.9948
55	5754.9965	5754.9958	5754.9949	5754.9947
Max. Deviation (MHz)	0.0131	0.0138	0.0141	0.0150
Max. Deviation (ppm)	2.27	2.39	2.45	2.60
Result	Complies			

Mode: 80 MHz / Chain 1
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9922	5209.9914	5209.9911	5209.9909
110.00	5209.9915	5209.9906	5209.9900	5209.9896
93.50	5209.9907	5209.9897	5209.9892	5209.9889
Max. Deviation (MHz)	0.0093	0.0103	0.0108	0.0111
Max. Deviation (ppm)	1.78	1.97	2.07	2.13
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5209.9859	5209.9854	5209.9845	5209.9842
-30	5209.9871	5209.9867	5209.9857	5209.9856
-20	5209.9885	5209.9879	5209.9878	5209.9876
-10	5209.9901	5209.9898	5209.9893	5209.9884
0	5209.9910	5209.9900	5209.9897	5209.9892
10	5209.9915	5209.9911	5209.9904	5209.9896
20	5209.9935	5209.9929	5209.9928	5209.9925
30	5209.9954	5209.9950	5209.9943	5209.9942
40	5209.9966	5209.9961	5209.9960	5209.9951
50	5209.9961	5209.9951	5209.9944	5209.9934
55	5209.9975	5209.9973	5209.9963	5209.9954
Max. Deviation (MHz)	0.0129	0.0133	0.0143	0.0144
Max. Deviation (ppm)	2.47	2.55	2.74	2.76
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9919	5774.9918	5774.9915	5774.9906
110.00	5774.9915	5774.9912	5774.9905	5774.9900
93.50	5774.9905	5774.9898	5774.9895	5774.9890
Max. Deviation (MHz)	0.0095	0.0102	0.0105	0.0110
Max. Deviation (ppm)	1.64	1.76	1.81	1.90
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5774.9878	5774.9871	5774.9864	5774.9855
-30	5774.9881	5774.9878	5774.9875	5774.9871
-20	5774.9883	5774.9876	5774.9867	5774.9866
-10	5774.9900	5774.9895	5774.9891	5774.9886
0	5774.9907	5774.9898	5774.9896	5774.9891
10	5774.9915	5774.9908	5774.9906	5774.9901
20	5774.9935	5774.9933	5774.9932	5774.9926
30	5774.9945	5774.9941	5774.9932	5774.9924
40	5774.9956	5774.9949	5774.9940	5774.9937
50	5774.9959	5774.9953	5774.9944	5774.9939
55	5774.9968	5774.9959	5774.9954	5774.9946
Max. Deviation (MHz)	0.0119	0.0124	0.0133	0.0134
Max. Deviation (ppm)	2.06	2.14	2.30	2.32
Result	Complies			

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170585	15GHz ~ 40GHz	Oct. 07, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz ~ 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%